CHEMIST AND DRUGGIST

for RETAILER — WHOLESALER — MANUFACTURER

APRIL 7, 1951



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NEWS OF THE WEEK

"Fair Prices" Deputation. — Mr. Harold Wilson (President of the Board of Trade) received a deputation from the Fair Prices Defence Committee on April 2.

Twenty-fifth Anniversary.—The twenty-fifth anniversary of the founding of Kaylene, Ltd., Waterloo Road, London, N.W.2, took place recently.

Tax on Food Mixers. — Food mixers having a capacity exceeding six Imperial quarts are not now chargeable with purchase tax provided they are not advertised or otherwise held out as suitable for domestic use.

United Kingdom-Pakistan Agreement.—A trade agreement between the United Kingdom and Pakistan was signed on April 2 in Karachi. United Kingdom exporters will receive preferences on certain products including chemicals and drugs. Many preference margins have been abolished.

Import Licence Revoked.—The Board of Trade announced on March 27 immediate revocation of the "World" open general licence for petroleum sulphonates

and for tanning extracts. Granting of the licence was announced recently, and was to come into effect from March 28; it will, therefore, never have been in force.

Doctors' Fees Under Review. — The general medical services committee of the British Medical Association was authorised by a conference of local medical committees on March 29 to continue its negotiation with the Minister of Health for an increase in the present capitation fees. It was stated that the Minister had recognised that there was "a good prima facie case for an urgent review of doctors' remuneration."

Freer Photographic Imports. — From April 13 additional photographic apparatus and accessories may be imported from the usual list of soft-currency countries without individual import licences. The new concessions apply to cameras, still (complete), of a value, c.i.f., not exceeding £5 each, together with cable releases, enlargers, exposure meters, film cassettes, filters, flash guns (and bulb and lights), hoods and range finders.

Increased Prices for Sulphuric Acid.—The Board of Trade has made an Order (S.I., 1951, No. 551) coming into effect on April 9, permitting increases on the maximum prices of sulphuric acid, due mainly to the advances in the world prices of sulphur and pyrites and of freight rates. The additions to maximum prices are 26s, 6d, per ton on "weak" acid (77 per cent. H₂SO₄) and 33s. 9d. per ton on "strong" acid (more than 84.02 per cent. H₂SO₄).

Awards for Blood Donors.—At a ceremony in London on April 3, the Princess Royal presented silver-gilt awards to "long-service" blood donors from all parts of Great Britain who had given fifty or more blood donations. The presidents of the Royal College of Surgeons, of Obstetricians and Gynæcologists, and of Physicians and the Minister of Health, spoke of the important contribution which blood transfusion had made to the relief of suffering and the saving of life.

Exchange Control Concession. — The Treasury made an announcement recently of an Exchange Control concession for goods exported for exhibition at trade fairs abroad. Since March 5, Form C.D. 3 (currency declaration) for such goods has no longer required Bank of England approval prior to shipment, provided that a statement is included on the form and on the pre-entry documents embodying the name of the trade fair, the quantity, value and description of the goods, and an assurance that they are being shipped to secure export orders and will be returned or paid for in an approved manner within six months of shipment.

Hospital Dispensers' Payments.—An agreement has been reached by the professional and technical council "B" of the Whitley Councils for the Health Services concerning the remuneration of assistants in dispensing who are required to attend at evening clinics in hospitals in the National Health Service outside their normal thirty-nine-hour working week, and part-time assistants. The following rates are to be put into operation with effect from March 31:—

Part-time staff: (1). If the hours worked are eighteen or less per week, the rate of remuneration to be 4s. an hour, with no title to the annual leave and sickness payments. (2). If the hours worked exceed eighteen a week, payment for the total number of hours worked to be proportionate to the salary for a full-time appointment, inclusive of London weighting and qualification allowance

where appropriate, (3). New entrants to the grade to commence at the appropriate age point if aged twenty-one or under and at the minimum of the scale if aged twenty-two or over. Evening clinics: If an assistant in dispensing has to attend at an evening clinic, which involves work in addition to the normal thirty-nine hours a week, extra payment to be made at the rate of 4s. an hour for the evening clinic work (no extra payment for work not in excess of the thirty-nine-hour week).

LOCAL NEWS

Antibiotics Lecture.—At a meeting of the North-east Lancs Branch of the Pharmaceutical Society in Blackburn, Lancs, recently, Mr. N. A. Herdman, M.P.S. (a member of the staff of Distillers Co. (Biochemicals), Ltd.), gave a lecture on "Penicillin Today." While dealing mainly with recent developments in penicillin therapy, Mr. Herdman also reviewed some of the newer antibiotics now being investigated in America. He afterwards answered members' questions.

South Shields Pharmacists' Association.—The principal guest at the third annual dinner of the South Shields Pharmacists' Association on March 12 was Mr. F. Jones (chairman, Sunderland Branch, Pharmaceutical Society). He replied to the toast of "The Visitors" proposed by Mr. Murdoch MacKenzie, Mr. M. S. Pearson proposed the toast to "The Association" and the chairman (Mr. Turner Bell) replied. Mr. W. A. Power was M.C.

Chemists' Wine Licences Opposed.—At a meeting of Brighton area off-license holders, on March 28, chemists were accused of endeavouring to "muscle in" on the licensed trade. Mr. Elmer Birmingham (assistant secretary, National Federation of Off-license Associations) said that chemists were doing it "under the pretext that they want to sell medicated wines.." Many licensing benches were granting those licences as being innocent applications, but experience had shown that they were purely a means of getting into the trade. Members decided to put before the conference a resolution "expressing concern at wine licences being granted to chemists."

Birmingham Rota Gives Satisfaction.—Reporting on an investigation into chemists' services during the recent influenza epidemic the Hours of Service (Pharmaceutical) Committee of the Birmingham Executive Council stated that the number of prescriptions dispensed was about one-third greater than in a similar period in 1950. The Committee was satisfied that

the pharmaceutical services were adequate to meet the demand, and did not recommend that any change in the rota should be made at times of epidemic.

Importance of Criticism.—At annual dinner of the Reading Branch of the Pharmaceutical Society held recently, Sir Alexander Gray (chairman, Berks Executive Council) was the chief guest. Replying to the toast of "The Health Service," he said that those in authority must listen to all constructive criticisms of the Service and suggestions, and make it clear that they do so, Constructive proposals must be adopted whenever possible. Miss Z. H. Novack said that during the recent epidemic not a single complaint had been made to the Berks or Reading Executive Councils, Mr. E. A. Burton (Branch chairman) presided.

Visit to Research Institute. — A joint meeting of the National Association of Women Pharmacists and the South-west London Chemists' Association held recently took the form of a visit to the Wellcome Research Institute, Euston Road, London, N.W.I. Refreshments were served the restaurant, after which Mr. Bishop (the librarian) gave a talk on the history, scope and purpose of the Well-come Historical Medical Library. Films showing the manufacture of insulin and the treatment of snakebite were shown in the lecture theatre, and Dr. D. Findlay (head of the Medical Information Department) discussed the diagnosis and treatment of diabetes. After the meeting, Mr. W. E. Wragg (president of the South-west London Chemists' Association) and Miss V. W. Burrell (vice-president of the National Association of Women Pharmacists) thanked Mr. Bishop, Dr. Findlay and the company for their hospitality.

Practical Aspects of Dietetics.—In an address to the North Metropolitan Branch of the Pharmaceutical Society on March 13, Dr. J. A. O'Connor said that deficiency of the vitamin B complex led to incomplete metabolism and accumulation of toxic products. A deficiency of one member of the complex usually inferred a general deficiency and since the watersoluble vitamins were not stored in the body the high carbohydrate diet of today increased the body's need for the B complex. Supplementary requirements were also necessary in toxic goitre where carbohydrate metabolism was high, and to relieve the ædema associated with pregnancy. Low residue diets were often unbalanced in ascorbic acid. Body proteins were now known to be in an unstable state in the body, being constantly broken down and changed into higher proteins in the form of living tissue. In reply to a question on the effect of excess dosage of vitamin D, Dr. O'Connor said that with very large doses intoxication was possible. Single doses of 300,000 units were now given to premature babies to last over several months.

SCOTTISH NEWS

Scottish Dispensing Costs. — The reports of the Department of Health for Scotland and the Scottish Health Services Council for 1950 published recently by H.M. Stationery Office, price 3s. 6d., show that the average cost of prescriptions dispensed during April 1950 was estimated at 50d. against 46.4d. in April 1949. The total cost of prescriptions (estimated at 20 millions) during the year could not yet be stated but was thought to be about £4½ millions. In addition, a further sum, estimated at £100,000 was due to doctors who dispensed their own medicines for approximately 220,000 patients.

Appliances Lists Revised.—The lists of appliances and chemical reagents in the third schedule to the National Health Service (General Medical and Pharmaceutical Services) (Scotland) Regulations, 1948, have been amended by the inclusion of the following additional items from April 1:—

Applicators Armslings

Bandages: Cotton or rayon and elastic. T-shaped.

Breast shields. Sponge rubber.

Urinals, portable.
Urine sugar analysis set, as specified in the Drug
Tariff.

REAGENTS
Diagnostic solution—tablets of copper.

Diagnostic solution—tablets of copper Gerhardt's reagent.

Indicators required for measurement of pH of urine.

Litmus papers. Rothera's reagent.

Strong solution of ammonia.

Lead nipple shields have been removed from the list. An amendment of the Drug Tariff, giving specifications and prices for the additional items, has been circulated. A few alterations have been made in titles; for example, elastic web bandage falls under the new heading of cotton or rayon and elastic bandages.

IRISH NEWS

Counter Trade Since Health Service.— At a meeting of the Ulster Chemists' Association held in Belfast recently Mr. W. Rae gave results of market research into retail trade including the effect of the Health Service on retail counter trade.

Ulster Students in Britain.—A party of pharmacy students from the Belfast College of Technology spent five days of their Easter vacation on a tour in London and Liverpool conducted by Mr. C. W. Young (head of their department). In London they visited Westminster Hospital and a number of leading pharmaceutical firms,

Ulster Whist Drive.—A sum of £18 10s. was raised for the Ulster Chemists' Benevolent Fund at a whist drive arranged by a subcommittee of the Executive Committee of the Ulster Chemists' Association held in the rooms of the Pharmaceutical Society of Northern Ireland on March 13. Mrs. Quinn (wife of the president of the Ulster Chemists' Association) distributed the prizes.

Lecture on Aseptic Dispensing.—A lecture on "Aseptic Dispensing and Sterilisa-

tion" was given to a crowded meeting of the Pharmaceutical Society of Northern Ireland in Belfast recently by Mr. B. J. Thomas, M.P.S., London. Mr. Thomas said there was considerable opportunity for energetic pharmacists to apply aseptic practice in retail business. He stressed the importance of the Therapeutic Substances Act licence, and outlined aseptic techniques, dealing with a number of products in detail and illustrating his address with a demonstration.

Ulster Associates' Committee. — The Associates' committee of the Ulster Chemists' Association, at a meeting held in Belfast recently, reviewed the existing scale of wages and decided to send a request to the Executive Committee of the Association for a Joint Council meeting to discuss an increase in the scale, Mr. M. C. Ogle was appointed a member of the Joint Council in place of Mr. J. McGivern, who has resigned. The following applications for associateship were approved: Pharmaceutical Chemist, Mr. F. B. Leyden; Apprentices, Miss P. Tinsley, Messrs. W. E. Best, J. W. Hogg, E. Jenkins, R. J. McBride, P. Owens and J. M. Thompson.



Group at dance of Associates' Section, Ulster Chemists' Association, recently. Included are Messrs. E. G. Mackle (chairman of the Section), C. A. Quinn (chairman of the U.C.A.) and H. W. Gamble (president, Pharmaceutical Society of Northern Ireland).

TOPICAL REFLECTIONS

The Next Budget

However we look at it, we are in for a stiff Budget. The editorial articles on pp. 411 and 413 are clear warnings of possible increases in taxation—increases that may be severe; and the article on pp. 414-16 headed "Taxation and the Chemist" is helpful in reminding owners of businesses to claim any tax remissions to which they believe themselves to be entitled. With the rearrangement of the industrial pattern as a whole in consequence of rearmament, there may be shortages of staff: these shortages may involve longer hours of work, though not longer hours of keeping shops open. That stringency, if it occurs, will mean, in its turn, shorter and fewer holidays. A scarcity of goods, familiar enough during the recent war, is already recurring. What will happen to the National Health Service is at present an official secret, even though it is to some extent an open secret. We can only hope that the position of panel chemists will not become materially worse than it now is. The letter of Mr. W. Varley on p. 420 contains figures indicating that some chemist-contractors are "probably not making any profit on the dispensing," and that he himself is losing money when supplying medicine bottles to customers. Purchase tax is, as you point out, an inequitable method of raising revenue. But is any alleviation of it likely in the near future?

Morphine in the Guard's Van

I was one of many who read the letter of Dr. D. D. Payne in "The Times" advocating the provisions in trains of supplies of morphine for injection (p. 393). On recovering from the shock of finding morphine described as morphia over a medical man's signature in 1951, I tried to visualise the probable sequence of events if a sustained public demand for the proposed innovation arose. Questions on the subject would be asked in one or both Houses of Parliament, and the questioners would be told that administrative difficulties rendered the carrying of morphine in trains in suggested manner impossible. If sufficient pressure followed-in the form of demonstrations in Hyde Park, for instance—the government of the day might give in. A new Statutory Instrument would in that case be issued, with numerous cross-references to existing Acts and Regulations, ordering the installation of a locked

receptacle and a defined number of ampoules of the injection in every guard's van. Any detail overlooked could be added by means of a further "S.I." There would be in every passenger train a functionary known as a morphine officer (on the analogy of delivery officer in the Post Office). This person would normally be seated in close proximity to the aforesaid locked receptacle, and no duplicate key would be allowed. It would be his duty, when a railway accident happened, to satisfy himself that any person purporting to be a medical man was named in the current Medical Register, a copy of which would be kept in or near the locked receptacle. In the event of any dispute on the subject of qualification, the decision of the guard must be obtained and would be final. Why should not a similar provision be extended to goods trains?

Drugs Seldom Prescribed

On looking through the additional list of drugs "and the like" now freely importable (p.394), it occurred to me to wonder how many of them are likely to figure in current N.H.S. prescriptions. By comparing data in the Shorter Oxford English Dictionary, a British Pharmaceu-tical Codex, a "Martindale" and Potter's Cyclopædia I have obtained more results of interest than I can cite here. The balm of Gilead tree (not mentioned in the Codex or the Martindale) is stated by the S.O.E.D. to be Balsamodendron Gileadense or perhaps B. Opobalsamum, but in the Potter book to be Populus candicans, Ait. Cocillana is mentioned in Martindale only. Condurango appears in all the books except the S.O.E.D. Deer('s) tongue is found in the S.O.E.D. and in Potter, echinacea in Potter, Martindale and (as cone-flower) in the S.O.E.D. Elemi is noted only in the S.O.E.D. Passiflora is in all but the Codex. Prickly ash in all four. Rhus aromatica is in Martindale and Potter only. Scullcap is in all four books, but is spelt "scull-cap" in the S.O.E.D. and both ways in Martindale. All contain simaruba and stillingia; but the synonym of the latter in the S.O.E.D. is queen's delight, while the other three works give queen's root. All but the Codex have wahoo as one of the English names of Euonymus atropurpureus; the S.O.E.D. marks the accent on the second syllable. These drugs are still in demand in some quarters. Xrayser

COMPANY NEWS

MILTON ANTISEPTIC, LTD.—Mr. Albert Gale, sales manager and secretary, has been appointed a director. He is also to join the board of Deosan, Ltd.

CLINICAL PRODUCTS, LTD.—Mr. Cyril Cooper, M.P.S., has been appointed a director. Mr. Cooper has relinquished his appointment as sales director of Moore Medicinal Products, Ltd.

BEECHAM GROUP, LTD.—Major-General John Buckley is retiring from the position of managing director and from the board. The board has appointed Mr. H. G. Lazell as managing director and Mr. J. O. Rintoul as assistant managing director.

WM. NEILL & Son (St. Helens), Ltd.—At an extraordinary general meeting held recently resolutions were approved increasing the share capital to £200,000 by the creation of a further 1,000,000 ordinary shares of 2s. each; the capitalisation of £50,000 to be applied in paying up in full 500,000 ordinary shares of 2s. each for distribution on the basis of one share for every two held.

Cooper, McDougall & Robertson, Ltd. — Owing to delay in receipt of returns from overseas, the accounts for the year ended December 31, 1950, are not yet ready for presentation to members. It is expected that they will be ready before the end of April. Based on information available, the board have declared an interim dividend on the ordinary shares of 8 per cent., less tax, together with a bonus of 2 per cent., less tax. No further distribution in respect of the year ended December 31, 1950, is to be recommended. For the previous year the distribution was 5 per cent., less tax.

New Companies

F. H. Bailey, Ltd. (P.C.).—Capital £10,000. To acquire the business of F. H. Bailey, chemist and druggist, carried on at Sunbury-on-Thames, Middlesex, etc. First directors are not named. R.O.: 41 High Street, Egham, Surrey.

H. F. W. Thomson, Ltd. (P.C.).—Capital £5,000. To acquire the business of a chemist and optician carried on at 134 Hawthorne Road, Kingstanding, Birmingham. Henry F. W. Thomson, M.P.S., and Ethel M. Thomson, directors.

W. T. DUNCAN, LTD. (P.C.).—Capital £5,500. To carry on the business of manu-

facturing, wholesale and retail chemists and druggists. William T. Duncan and Josephine Duncan, directors. R.O.: 12 Gladstone Street, Cross Keys, Mon.

MEDICINAL BOTTLE LAUNDRY, LTD. (P.C.).—Capital £1,000. To carry on the business of washing, cleaning, sterilising and disinfecting medicine bottles containers, etc. L. A. and H. J. Evans, E. M. Friend and J. H. Manning, directors. R.O.: 17 Streatham Hill, London, S.W.2.

Braun & Co., Ltd. (P.C.).—Capital £100. To carry on the business of engineers, and as dealers, suppliers and manufacturers of all kinds of models and of medical, surgical, hospital and other requisites, etc. Alfred R. Shepherd and Francis E. Shepherd, directors. R.O.: 30 Finsbury Square, London, E.C.2.

Medical Supply Co. (Barton), Ltd. (P.C.).—Capital £500. To carry on the business of dealers, suppliers and manufacturers of medical, surgical, hospital, anatomical, hygienic, invalid, optical and scientific requisites and appliances, etc. The directors and other particulars are similar to those of Braun & Co., Ltd.

BUSINESS CHANGES

Mr. G. C. Morrison, M.P.S.I., opened a pharmacy at Castlemartyr, co. Cork, on March 30.

MOORE MEDICINAL PRODUCTS, LTD., have appointed Mr. D. Cummins, M.P.S., manager of the London office, 64 Gloucester Place, London, W.1.

EVANS MEDICAL SUPPLIES, LTD., Speke, have appointed Mr. J. Calderwood their medical representative for the Tyneside, North Durham, South Durham, North and East Yorks areas.

THOMAS KERFOOT & Co., LTD., Vale of Bardsley, Ashton-under-Lyne, have appointed Mr. C. F. Mugford, Station Road, Buckfastleigh; Devon, their representative in the West of England.

IMPERIAL CHEMICAL INDUSTRIES, LTD., have appointed Mr. J. C. Swallow joint managing director and Mr. E. G. Williams research director of the Plastics Division of the company.

MR. A. H. Bentley, Ph.C., has acquired the pharmacies of F. Cherry and Thurmott, Ltd., at 65 High Street and 77 Hersham Road, Walton-on-Thames, Surrey. He will continue to trade under the company's title.

LEGAL REPORTS

Phenobarbitone Without Prescription.—At Ipswich recently, Felix Wilfred Wiggin, M.P.S., was fined £10, including costs, for selling phenobarbitone tablets without a medical prescription to a young man who used them to attempt suicide. Mr. Wiggin said that his business had been run by successive members of the family for 110 years and had not previously been involved in proceedings.

Pharmacy Act Fine.—At Market Harborough magistrates' court, recently, Eric Stanley Hartopp, Medbourne, Leics, was fined £3, with £2 2s. advocate's fee for illegally selling poison (in a disinfectant). A weights and measures inspector gave evidence that Hartopp was warned a year ago that he would be committing an offence if he sold the disinfectant when he was not listed with the local authority. Hartopp wrote to the court explaining that he did not intend to stock the product again.

D.D.A. Fines.—Pleading guilty to six summonses under the Dangerous Drugs Act, Lawrence Arthur Jeeves, M.P.S., Cromwell Road, Hove, was at Hove magistrates' court recently fined a total of £3 and ordered to pay £3 3s. costs. He was summoned for supplying pethidine unlawfully; with failing to enter transactions in the register within the required time, and with failing to mark the prescription for pethidine with the date on which it was dispensed. For the defence it was said that Mr. Jeeves had been qualified for twenty-five years; his father and grandfather were chemists. The shop was owned by a small company and there was another at Haywards Heath. Mr. Jeeves had been manager of the Hove branch of the company since 1948. He had deferred making the entries of outgoing pethidine in the register until he could find a suitable time to do so. They were all entered in the prescription book with two red lines through them to show they were under the Dangerous Drugs Act, and the officer had no difficulty at all in seeing what had gone out. It was merely a matter of transferring the entries from the prescription book into the Dangerous Drugs Register. Chemists, said defending solicitor, were burdened in these days more than most people with the number of regulations they had to conform with, and there was not the slightest suggestion of anything improper. Failing to mark the prescription must have been due to a momentary inadvertence.

COMING EVENTS

Monday, April 9

WEST MIDDLESEX CHEMISTS' ASSOCIATION and BRANCH, Y.M.C.A., Bond Street, Ealing, London, W.5, at 8 p.m. Film show and annual meeting.

EDINBURGH AND SOUTH-EASTERN SCOTTISH BRANCH, PHARMACEUTICAL SOCIETY, 36 York Place, Edinburgh, at 7.30 p.m. Annual meeting, Mr. G. Hedderwick, M.P.S., on "Notes and Comments."

SOUTH SHIELDS PHARMACISTS' ASSOCIATION: Dorset Café, Ocean Road, South Shields, at 7.30 p.m. Mr. F. H. Oliver (head of the Pharmacy Department, Sunderland Technical College) on 'The Body, the Adrenal Gland and the Changing Circumstances.''

Tuesday, April 10

HARROW BRANCH, PHARMACEUTICAL SOCIETY, Oak Hall, Baptist Church, College Road, Harrow, at 7.30 p.m. Open forum.

HOUNSLOW BRANCH, PHARMACEUTICAL SOCIETY, Conference Room, Parke, Davis & Co., Staines Road, Hounslow, Middlesex, at 8 pm. Dr. J. S. White (head of the department of clinical investigation, Parke, Davis & Co.) on "Chloromycetin—the First Synthetic Antibiotic," and film.

Preston Pharmacists' Association, Bull and Royal Hotel, Preston, at 7.45 p.m. Annual meeting.

SLOUGH BRANCH, PHARMACEUTICAL SOCIETY, Community Centre, Slough, at 8 p.m. Annual meeting, Mr. A. J. Plowright (assistant secretary, Pharmaceutical Education."

SOUTH-EAST METROPOLITAN BRANCH, PHARMACEU-TICAL SOCIETY, Grove Tavern, 26 Camberwell Grove, London, S.E.5, at 7.30 p.m. Discussion on "The Proposed Supplemental Charter and By-laws."

Association of Pharmaceutical Employees, 17
Bloomsbury Square, London, W.C.1, at 7.30 p.m.
Meeting to discuss the Industrial Court's salary
award Speakers to include Messrs. J. D. Hiscock
(secretary, trade union side of the Pharmaceutical
Joint and Industrial Council), W. S. Benjamin,
M.P.S. (chairman, national advisory committee,
A.P.E.).

Thursday, April 12

Burnley Branch, Pharmaceutical Society, Cross Keys Hotel, Burnley, at 7.30 p.m. Mr. H. Steinman (a member of the Society's Council) on "Matters for Discussion."

Leeds Branch, Pharmaceutical Society, Metropole Hotel, King Street, Leeds, at 7.30 p.m. Mr. G. A. Nelson, Ph.C., on "Early Pharmacopœias."

PORTSMOUTH BRANCH, PHARMACEUTICAL SOCIETY, Solent Hotel, South Parade, Southsea, at 7.30 p.m. "Any Questions."

PROPRIETARY ARTICLES TRADE ASSOCIATION, Connaught Rooms, Great Queen Street, London, W.C.2, at 3 p.m. Annual meeting. [In view of the continuing threat to the system of price maintenance for which the P.A.T.A. stands, the Association is asking its members to make a special effort to attend.]

Friday, April 13

BIRKENHEAD AND WIRRAL PHARMACISTS' ASSOCIATION and BRANCH, Woodside Hotel, Birkenhead, at 8 p.m., Film: "Birth of a Drug," with address by Mr. B, C. Bryant (Imperial Chemical (Pharmaceuticals), Ltd.).

DEATHS

BARKER.—Recently, Mr. John Henry Barker, M.P.S., 64 Greystones Road, Sheffield. He was registered in 1921 under the Poisons and Pharmacy Act, 1908.

BURKE.—On March 8, Major Denis J. Burke, O.B.E. (managing director of Commercial Solvents (G.B.), Ltd., and deputychairman of the Distillers Co. (Biochemicals), Ltd.), aged sixty-four. Major Burke was engaged in reorganising the research and development department of the Distillers Co. from 1934 to 1945, and later organised production operations at the company's penicillin factory at Speke, Liverpool. He was also chairman of Charles Moore & Co., Ltd. (salt manufacturers), the Emido Co., Ltd., and the Liverpool Adhesive Paste Co., Ltd., and a director of British Industrial Solvents, Ltd., the Methylating Co., Ltd., and the Industrial Spirit Co., Ltd.

Davidge.—On March 10, Mr. Henry Norris Davidge, Ph.C., Rock Gardens Hotel, Bognor Regis, Sussex. Mr. Davidge qualified as a chemist and druggist in 1891 and passed the Pharmaceutical Chemist examination in 1802

examination in 1892.

Davies. — On March 17, Mr. Mark Davies, 64 Central Parade, Herne Bay, Kent. Mr. Davies had been in business in Herne Bay since 1929. A former Kinninmont prizewinner, he qualified in 1911 and was later in turn a lecturer on the teaching staff of the Glasgow School of Pharmacy and chief pharmacist at the Glasgow Western Infirmary.

Davies.—On March 16, Mr. William Glyn Davies, M.P.S., 71 Kingston Road, New Malden, Surrey. Mr. Davies qualified

in 1924.

GASKELL.—At his home in London, suddenly, on March 31, Sir Holbrook Gaskell, O.B.E., a director of Imperial Chemical Industries, Ltd., 1934-46. Sir Holbrook joined the United Alkali Co. (in which was incorporated the business of Gaskell, Deacon & Co. founded by his father) in 1901 as an assistant engineer and was promoted chief engineer in 1914. In 1922 he was appointed to the board, and four years later became managing director. On the incorporation in 1926-27 of Imperial Chemical Industries, Ltd., of which United Alkali Co. was one of the constituents, he became chairman of the delegate boards of the new company's general chemical and lime groups. He was knighted in 1942.

MILLER.—Recently, Mr. John Faulkner Miller, M.P.S., The Orchard, Abbots Nook, Bourne End, Bucks. Mr. Miller qualified in 1928.

MILNER. — On March 21, Mr. Jonah Milner, M.P.S., 63 Leyland Road, London,

S.E. 12. Mr. Milner qualified in 1897 and two years later started in business, on his own account at Woolwich Road, Greenwich, removing in 1905 to larger premises in Trafalgar Road, In 1911 he joined with Mr. Coke to form Milner & Coke, Ltd., manufacturing chemists. For many years Mr. Milner



was secretary of the South-east London Chemists' Association, and was twice its president. He was a past-chairman of the London Pharmaceutical Committee and a past-president of the Proprietary Articles Trade Association, whose council he had joined in 1916. Mr. Milner had been in failing health for some years. He is survived by a pharmacist daughter: Miss Grace A. Milner, M.P.S.

Mr. Cecil H. Foster, M.P.S., writes: For some thirty years it has been my privilege to know Mr. Jonah Milner. He was one of the founder members of the Southeastern (London) Chemists' Association and took a keen interest in anything to do with business organisations. He was ever-willing to serve his fellow pharmacists on any committee or association. For many years he served the South-eastern Association as secretary, and for two years was its president, his second election to that office coinciding with the Association's coming of age. Bluff and hearty, he made friends with all, and for relaxation was always willing to play a game of bowls.

Mr. Ernest Skues, M.P.S., writes: The death of Jonah Milner removes from Lon don pharmaceutical circles a highly respected and much loved personality. Although he had not been active during recent years, owing to failing health, he had given a great deal of his time and energy for many years past to pharmaceutical or ganisation work. He was naturally more

particularly associated with the South-east London area where his pharmacy was situated, but he was a well-known figure at national conferences and annual meetings of the Pharmaceutical Society. Jonah Milner's outstanding characteristic was a bluff geniality peculiarly his own. He was a man of wide vision with a great capacity for friendliness and understanding.

Pearson.—On March 29, Mr. George Edward Pearson (formerly chairman and governing director of The Wellcome Foundation, Ltd.) aged eighty-two. Mr. Pearson served his apprenticeship with Mr. W. Warrior, Market Place, Northallerton, Yorks, and passed the Chemist and Druggist Qualifying examination in December 1889. He then joined the staff of John Bell & Co., Oxford Street, London, as senior assistant, and remained there until 1895, when he joined Burroughs Wellcome & Co. as travelling representative in London. He subsequently travelled widely for he company, visiting South Africa, Austraia, Italy, Canada and the United States, and played a large part in establishing the present international organisation of the company. In 1905, when thirty-seven, he vas appointed general manager, and upon he formation of The Wellcome Foundaion, Ltd., in 1924, he was appointed its leputy governing director, later becoming overning director and, on the death of ir Henry Wellcome in 1936, chairman. le retired from those posts in 1940 after nore than forty-five years' association with he company. Mr. Pearson's business career eft him little leisure for outside interests, hough in his early years he was an active nember of the London Chemists' Assisants' Association, serving for a period as ice-president, and in 1938 he was elecd an honorary auditor of the Pharmaeutical Society. He was a fellow of the nglish and American Chemical Societies. 1 1937 the President of the French Reublic conferred upon him the Croix de hevalier de la Légion d'Honneur.

RICHARDS.—On March 19, suddenly, Ir. Henry Reginald Richards, Regent Cirs, Swindon, aged forty-seven. Mr. Richds qualified as an Apothecaries' Hall spenser in 1929.

WORMALD.—At his home, Sunnyside, olme Lane, Allithwaite, Grange-overnds, Lancs, on March 31, Mr. Ernest ormald, M.P.S. Mr. Wormald, who alified in 1905, was formerly in Luddenn Foot, Yorks.

PERSONALITIES

MR. A. L. SILLITOE, M.P.S., Lee-on-Solent, Hants, has been installed president of the local chamber of trade. He opened the first chemist's business at Lee over thirty years ago.

Professor W. H. Linnell (professor of pharmaceutical chemistry in the University of London) has been appointed to represent the Pharmaceutical Society of Great Britain at the Twelfth International Congress of Pure and Applied Chemistry to be held in New York, September 10-13.

Mr. E. Ratcliffe, M.P.S., Wembley, Middlesex, has been appointed a member of the Middlesex County Council Health Committee in place of Mr. F. G. Wells (a member of the Pharmaceutical Committee) who recently resigned on account of pressure of other business.

Mr. Albert Gale, who has been appointed a director of Milton Antiseptic, Ltd. (see p. 430),

joined the company as office boy thirty - four years ago. He became an outside representative in 1923 and after five years "on the road" he was transferred to the executive staff and appointed sales manager and secretary, positions which he has held up to the present day.



MR. R. F. Grant, M.P.S., was presented with an electric buffet and china teaservice by the staff of Boots, Ltd., Glasgow, recently, on the occasion of his leaving the district to take up a similar appointment as territorial general manager in the south of England.

WILLS

MR. G. FAULKNER, M.P.S.N.I., 26 William Street, Cookstown, co. Tyrone, left £24,272.

MR. R. WATT, M.B., B.Ch., M.P.S.I., 114 Malone Road, Belfast (an examiner for the Pharmaceutical Society of Ireland), left £5.325.

MR. W. ROBERTSON, M.P.S., Hillview, Pitlochry, Perths (a partner of William Robertson & Son, chemists, Pitlochry), left £18,728.

TRADE NOTES

Now Available.—Stafford Allen & Sons, Ltd., Wharf Road, London, N.1, are now in a position to supply small quantities of podophyllotoxin.

Redesigned Carton. — A new pack adopted by Glaxo Laboratories, Ltd., Greenford, for Farex food carries on one



side an illustration of an infant and on another a break-fast-table scene (to emphasise the use of the product as an invalid and family cereal). Printed six at a time, the cartons carry as many different slogans. The inside flaps carry a diagram showing

the order in which a child's milk teeth usually appear. A tuck-in lid enables the carton to be reclosed after use. The contents are enclosed in a heat-sealed bag, and the inner flaps are gum-sealed.

Topical Showcard. — British Chemicals and Biologicals, Ltd., 43 Regent Street, Loughborough, have prepared a showcard (size 9\frac{3}{4} \times 7\frac{3}{4} \times in) worded "Working for an exam.? Sanatogen will sustain your mental alertness." A copy will be sent to any chemist on request.

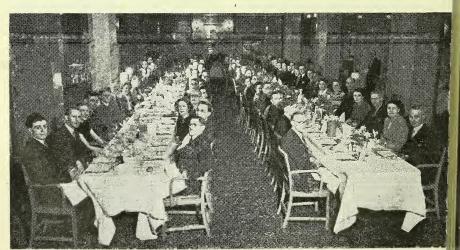
Final Weeks of Bonus Offer.—Bonuses of 10 per cent. on orders of over £10, $7\frac{1}{2}$ per cent. on £8-10 orders and 5 per cent. on £5-8 orders of Flit insecticide are offered by Stemco, Ltd., 128 Albert Street, London, N.W.I, until April 30.

Improved Formula.—Coty (England), Ltd., 3 Stratford Place, London, W.I. announce that Talc de Coty now contains a new ingredient claimed to keep the skin fresh and fragrant without preventing perspiration.

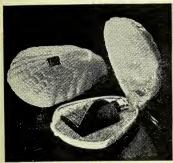
Squecze-bottle Insecticide. — Harker Stagg, Ltd., Emmott Street, London, E. 1, are now issuing Peldosect perfumed insecticide spray in a 5-oz. plastic "squeezebottle." Peldosect contains DDT and pyrethrins.

Culture Media Handbook. — A looseleaf handbook giving information on formulas, directions and uses of culture media has been prepared by Oxo, Ltd., Thames House, Queen Street Place, London, E.C.4, and additional pages are to be sent out as fresh information becomes available.

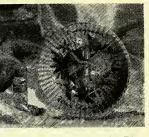
Photographic Information Bureau.—To encourage photography during the 1951 Festival of Britain, Kodak, Ltd., are opening a photographic information bureau at Kodak House, Kingsway, London, W.C.2, on April 24. It will remain open for the duration of the Festival.



on March 30 at which they were guests of the directors.







"IDEAL HOME" EXHIBITS.— Among items shown at the "Daily Mail" Ideal Home Exhibition (see C. & D., March 10,

hibition (see C. & D., March 10, p. 290) were Evening in Paris perfume in white oyster pack (Bourjois, Ltd.), Tempo 28-pint autoclave (Almag Engineering Co., Ltd.), and novelty handbag pack of Evergreen perfume (Peter Claridge).

Mail Lost by Fire.—A fire at the office of Pal Personna Blades, Ltd., 103 Mount Street, London, W.I, during or just before Easter may have destroyed some mail. The company ask any of their customers who wrote about that time to get in touch with them again.

Improved Ampoule Labelling. — Burroughs Wellcome & Co., 183 Euston Road, London, N.W.1, have adopted the Rejafix labelling system for their ampoules of Methedrine brand injection of d-N-methylamphetamine hydrochloride and of Tubarine brand (miscible) injection of d-tubocurarine chloride. By this system the identifying wording is printed direct on to the ampoule and fired to render the legend permanent and resistant to any solution in which it may be subsequently immersed. As a further precaution Tubarine (miscible) ampoules are printed in red against clear glass while the Methedrine labels show clear glass through a white ground.

PRICE CHANGES

AGFA, LTD., Deer Park Road, London, S.W.19, increased on April 1 the price of Agfa Karat 12 Isopan film. — ALLEN & HANBURYS, LTD., Bethnal Green, London, E.2, state that since March 27 all orders for Lysantol gargle have been charged at a new increased price made necessary by increased costs.—Benger Laboratories. LTD., Holmes Chapel, Cheshire, gave effect on April 1 to new prices for Auralgicin, Benecol (1,000's), Casydrol oral (250's and 500's), dextran-Benger, Ferrivenin, Hyalase and Benger's food. — British Chemicals & Biologicals, Ltd., Loughborough, state that revised prices for calamine lotion (Genatosan), Cogene and Sanatogen will apply to goods supplied from April 9.— The British Drug Houses, Ltd., Graham Street, City Road, London, N.1, state that new prices for Heparin, B.D.H., became effective on March 30, and for Mersalyl, B.D.H., and pituitary (posterior lobe) extract, B.D.H., on April 2.—The price of the No. 1 size Dermina reducing cream was increased, and the price of the No. 4 size reduced, on April 2 by the manufacturers, COLLOIDAL CHEMISTS, LTD., 35A Bessborough Place, London, S.W.I.—Increased prices for Alka-Seltzer effective as from March 19 have been announced by Don S. MOMAND, LTD., 58 Albany Street, London, N.W.I. — PICOT, LTD., London, W.6, announced on March 28 increased prices for their trial-size perfumes. -Owing to the recent Treasury decision to increase the purchase tax on home permanent-waving outfits to 100 per cent. (see C. & D., March 31, p. 393), the prices of Pin-up outfits were raised correspondingly by the manufacturers, PIN-UP COLD PERM-WAVE, LTD., 59 Park Royal Road, London, N.W.10, on April 1. [A similar increase in the price of Toni outfits (GIL-LETTE INDUSTRIES, LTD.) was inadvertently referred to last week as a reduction].-Certain price modifications effected on April 2 by ROCHE PRODUCTS, LTD., Welwyn Garden City, Herts, in Allonal, Omnopon, Prostigmin and Liquemin preparations have had the effect of removing discount anomalies so that all the company's specialities are now subjected to a uniform trade discount of 33\frac{1}{3} per cent.—Sponcel, Ltd., Woldham Road, Bromley, Kent, increased on March 12 the prices of Spontex toilet and household sponges (except household sponges 45H and 28H).—THE CROOKES LABORATORIES LTD., Park Royal, London, N.W.10, increased the retail prices for Crookes Bromoform Co. on March 12.

PROPRIETARY ARTICLES TRADE ASSOCIATION

Alterations to Protected List (Part 1)

(I.R.P.=Inclusive retail price)

(I.R.P.=Inclusive	e retail	price)	
Product	Doz.	Tax	I.R.P
Medico Biological Laboratories, Ltd.	s. d.	%	s. d.
Antipeol ointment	17 0 27 0	33 ¹ / ₃	2 6
Hospital tube	50 0	333	3 11 7 5
Liquid, 40-c.c. bottle	25 0	333	3 8
Ophthalmo-Antipeol	27 0	333	3 11
opiniamo-mapeoi	14 0	331	2 0
Rhino-Antipeol	27 0	331	3 11
Time the poor	14 0	333	2 0
Enterofagos ampoules, 50's	189 0	Nil	22 6
10's	42 0	Nil	5 0
5's	25 0	Nil	3 0
Detensyl tablets 500's	288 o	Nil	43 0
50's	36 o	Nil	5 3
C. T. 11.1	25 0	Nil	3 6
St. James' balm	13 0	Nil	1 9
Allen & Hanburys, Ltd.	13 0	1411	1 9
Charkaolin granules, 6 oz.	25 6	333	
3-lb.	25 6 168 0		3 11 25 8
		331	
,, tablets 50's		333	2 6
	28 6	331	4 4
Benbow's Dog Mixture Co., Ltd.		NIII	. 0
Benbow's dog soap	5 4	Nil	o 8
British Felsol Co., Ltd.			
Felsol powders	27 0	331	3 9
CI TI TI	108 0	331	15 0
Glaxo Laboratories, Ltd.			
Cytamen 20			
six 1-c.c. ampoules	54 0	Nil	6 o
Scott & Turner, Ltd.			
Delrosa rose-hip syrup, 6-oz.	18 o	Nil	2 0
Tampax, Ltd.			
Dolcin tablets 100's	54 0	331	7 6
500's	243 0	333	33 9
. 600's	288 o	333	
Unichem, Ltd.			
Duo-Gestan brand digestive			
powder	19 0	331	7 6
	29 4	333	4 6
Wigglesworth, Ltd.			
Benzac tablets, 9s. doz.			
ı doz.	8 3	333	19
,, ,, 19s. 6d. doz.			
ı doz.	18 3	331	3 6
Fumora cigarettes, 6s. 9d.			_
doz 1 doz.	6 o	333	I 3
Inhalex inhalant, 10s. 6d.			_
doz I doz.	9 6	331	1 9
16s. doz 1 doz.	14 3	333	2 6
Inhalex ephedrine, 10s	9 3	333	1 9
McKintol B (aqueous),	, ,	001	
10s. 9d 1 doz.	9 9	333	1 9
Opasol, 10s	9 0	333	1 9
Pedrian foot salve, 11s.	_		
ı doz.	10 0	331	2 0
Sanovis glucose D, 21s.			
ı doz.	19 6	Nil	2 4
K.B. pills, 14s. 6d 1 doz.	13 0	331	2 4
Goulds antiseptic ointment,	J -	000	'
9s. 3d I doz.	8 6	331	1 9

Product	Do	z.	Tax	I.R	L.P.
Wigglesworth, Ltd.	s.	d.	%	s.	d.
Baby cream, 12s. doz. 1 doz.	11	0	333	1	9
Baby powder, 8s. 9d. doz.			333		9
ı doz.	8	0	331	ī	4
Black-cherry linctus, 15s.		- 1	333	_	.1
ı doz.	13	6	331	2	5
Cream of magnesia, 8s. 3d.	-3		338	_	
ı doz.	7	6	331	1	6
Gripe mixture, 9s. 3d.	,		338	•	0
ı doz.	8	6	331	I	3
Liver salts, 8s. 6d. ". I doz.	7	9	331		_
		- 1		I	3
14s. 6d 1 doz.	13	0	331	2	3
Wright, Layman & Umney,					
Ltd.					
Wright's coal-tar inhaler or					
vaporiser	49	0	331	6	9

Alterations to Protected List (Part 2)

Alterations to Protect	ed L	ast	(Par	t 2)		Ш	И
Thos. Harley, Ltd.	1			Î		и	1
(Prices in Irish Republic)	1					и	
Rodine rat poison	9	8	Nil	I	3	ш	а
	19	4	Nil	2	6	ш	4
	38	8	Nil	5	0	ш	я
	77	4	Nil	10	0		ш
Oatine Co.						ш	п
Oatine cream, handbag tube	9	4	100	1	11	ш	я
jar	18	8	100	10	10		ш
3	37	4	100	7	8		и
Oatine Snow, handbag tube	8	0	100	í	8	ш	П
iar	16	0	100	3	3		я
,, powder base, hand-	10	Ü	100	3	3		ш
bag tube	9	4	100	1	11		
jar	18	8	100		10		ш
,, face powder	18	8				ш	
D	18	8	100	3	10	ш	
Soapless shampoo powder		-			- 1	ш.	-
	3 8	4 6	331	0		ш	100
Toilet soap 3-oz.	-		331	I	$2\frac{1}{2}$		Ш,
Bath soap	13	7	331/3	2	0		Ĺ
Artoral denture powder and			,				1
cream	14	8	331	2	3		7.5
Royal Court Tintena hair					- 11	ш	12
dye	18	8	100	3	10	ш	ш
Royal Court Tintona hair						ш	(in
bleach	34	0	100	6	II	ĸ.	D
Osborne, Bauer & Cheeseman,					- 4	11	-2
Ltd.		. 1				R A	EL L
Glymiel jelly	8	6	100	1	8	и	100
	13	8	100	2	8	ш	遊
Wigglesworth, Ltd.		1					10
Goulds anti-pyorrhoea dental						ш	30
paste, 10s	9	0	333	1	9	и	
Glycologne jelly (tube or jar)				0	- 10	ш	M
8s. 3d	7	6	100	1	9.	ш	題り
McKintol A spirituous,						ш	(69)
10s. 9d. doz 1 doz.	9	9	100	2	3		ilite
Moseley's slippery-elm food,					7/1	ш	State Batter
1-lb., 20s. 6d T doz.	18	9	Nil	2	3		
2-lb., 37s	34	o	Nil	4	0		Men
Roche Products, Ltd.	3,						rider.
Redoxon vitamin-C tablets,							i kroje
500-mgm 20's	54	0	Nil	6 -	9		16
100's	216	0	Nil	27	0		els
500's	960	0		120	0		SOL .
3000	,						-mg

REPORT ON PURCHASE TAX

The results of a study of the impact of purchase tax upon exports made by a special committee of the Federation of British Industries have been presented in a report by the Federation to the Chancel-

lor of the Exchequer.

The Committee consisted of representatives of a cross section of the consumer goods industries (including the toilet preparations and perfumery industry). Its examination convinced the Committee that the present system is likely, if continued, to have the most damaging effects upon export trade, particularly on exports of high-quality goods. In a sellers' market those damaging effects are largely concealed, "but it is a disturbing fact that the volume of exports of some important consumer goods is still below pre-war." offset the decline in exports of engineering products due to rearmament, exports of consumer goods must be increased. The most harmful effect of the present system it that it forces manufacturers to make an artificial distinction between goods subject to tax and those not subject. That division reduces the economies that can be gained by spreading initial costs and overheads over long runs of production. With the home market restricted by purchase tax, manufacturers cannot afford to produce the wide variety of ranges the overseas buyer wants-and used to get. The initial costs of experimentation, designing and setting up the production line cannot be absorbed and a competitive price quoted. The ranges offered by many British manufacturers are tending, therefore, to compare unfavourably with those offered by their competitors.

Cosmetics Industry

The toilet preparations and perfumery industry made the point that past performance in the cosmetic industry shows the vital need for a flourishing home trade before attempting to break into the export markets. In that industry, where goodwill counts a great deal, the majority of overseas buyers only purchase goods known to be sold in the home market. Unless action is taken in the near future to enable manufacturers to produce fine quality packs, at present rendered impossible owing to the incidence of purchase tax, it is likely that a large proportion of Britain's export trade in toilet preparations and perfumery will be lost to the United States if there is any easing of the dollar situation.

LETTER TO AN M.P.

The following letter has been sent to the Member of Parliament for Hendon North over the signatures of the chairman and secretary of the Hendon, Edgware and District Branch of the National Pharmaceutical Union:—

SIR,—You will doubtless know that a provisional cut has been made in National Health Service remuneration to chemists. This cut takes the form of a reduction from 33 per cent, to 16 per cent, in what is called "oncost" on drugs supplied under the Service. The reduction was instituted on May 1, 1950, and, after the strongest representations had been made to the Ministry of Health, it was conceded that the figure of 16 per cent, should be provisional and that when, after negotiation and possibly arbitration, a final decision was reached, a retrospective adjustment should be made.

Chemists in the Hendon area, as in all other areas, view with the greatest concern the interminable delay in reaching a decision on the matter. In a letter sent by the secretary of the National Pharmaceutical Union to secretaries of local branches on February 12, the following occurs:

on February 12, the following occurs:

The findings of the inquiry (into dispensing costs), in the considered opinion of both the Central N.H.S. Committee and the consulting accountants, justify a return at least to the rate of oncost that prevailed up to May 1, 1950. A formal claim was therefore sent on February 10 to the management side of the Whitley Council with a request for a meeting of committee A to be held as soon as possible. At that meeting, the staff side, on behalf of all chemist contractors, will press the claim justified by the results of the inquiry into dispensing costs. Every effort will be made to ensure that a settlement is reached at the earliest practicable date.

Although the Ministry has now had adequate time to consider the matter, no meeting of the Committee has yet been called. In view of the recent considerable increases in dispensing costs, chemists cannot but feel the greatest anxiety on this account. During January and February this year they were called upon to shoulder a very heavy burden of responsibility in meeting the needs of the sick. They feel fully justified in claiming that the terms of their contract should be settled equitably at the earliest possible moment. We trust that this claim will receive your sympathetic consideration and that you will not hesitate to support efforts to bring the matter to a speedy and satisfactory conclusion. [Comment, p. 444.]

GOVERNMENT RESEARCH, 1949-50

Investigation of the possibility of producing sulphur from natural sulphates (e.g., gypsum) by the agency of bacteria was amongst important work done by sections of the Department of Scientific and Industrial Research during the year 1949-50. The work is described in a report of the Department for that period published recently by H.M. Stationery Office, and was undertaken at the Government Chemical Research Laboratory, Teddington, Middlesex. So far the investigations are only at the initial experimental stages. Scientists from the laboratory visited certain sulphur-producing lakes in Cyrenaica and brought back a number of sulphate-reducing bacteria found therein: with those bacteria the researches have proceeded. The chief obstacle to successful industrial exploitation of the process is the low specific rate or reduction of sulphates. Research, however, is proceeding with a view to speeding the process. There are abundant indigenous raw materials, and a process if successful would make a substantial contribution to the country's supplies of sulphur. To make the process economically feasible, however, it would be necessary, the report states, to obtain strains of bacteria able to reduce sulphates about ten times more quickly than at present. Three methods of searching for such bacteria are being tried. They are: (1) The isolation of strains from different environments (e.g., soils, oil wells, etc., in various parts of the world) and measuring their specific rates of production; (2) study of the effects of environmental conditions on the rate of sulphate reduction; and (3) exploration of the possibility of obtaining mutant strains of high activity.

Since January 1950 about 250 cultures of industrial bacteria from the National Collection under the Laboratory's care had been sent to thirteen countries.

been sent to thirteen countries

Fundamental Chemistry

The fundamental chemistry of hydrocarbons continued to be investigated during the year. Work on the preparation of isotopically labelled compounds progressed to the point where precise details had been issued for the preparation of about a dozen compounds containing carbon ¹³C. Products likely to be useful as systemic insecticides produced in the Laboratory had been tested by the Department's Pest Infestation Laboratory.

Anti-pest Research

The Pest Infestation Laboratory had devoted much effort during the year to the problems of fumigation of bulk grain and to the reaction of fumigants and insecticides with foodstuffs using radioactive carbon and bromine. It had been found that with the exception of aspartic acid, all the amino acids in wheat had reacted towards methylbromide.

Agene Toxic Factor

The report from the research association of British flour millers shows that the chemistry of the toxic factor formed by the action of agene (nitrogen trichloride) on proteins had been elucidated and shown to be as indicated below:—

Compounds of that type had been designated sulphoximines. *l*-Methionine sulphoximine had been synthesised by the action of hydrazoic acid on *l*-methionine sulphoxide by the Schmidt reaction and the product proved to be identical with the toxic factor. Several other members of the sulphoximine series had been made by that method and dimethyl sulphoximine by the alternative route through the sulphilimine. In the work, chromatography had been an "indispensable" tool.

Reports from other bodies receiving grants from the Department included that of the Commonwealth Mycological Institute which stated that improved techniques had reduced loss to probably the irreducible minimum.

INQUESTS

Chloroform Inhaling Habit.—At an inquest at Battersea recently, a man was stated to have died as a result of inhaling chloroform. The police had seen local chemists about his chloroform supplies but he had purchased his last supply outside the area. The verdict was of accidental death.

Pharmacist's Accidental Death. — A verdict of accidental death was returned at the inquest at Boston, Lincs, on March 8, on Mr. George Harry Hannam, Peterborough (formerly in business as a chemist in Leicester and Skegness). He was involved in a road accident near Boston and died on February 20.

PHARMACEUTICAL COMMITTEE ELECTIONS

Compilation of Electoral Registers

THE triennial elections of Pharmaceutical Committees are to be held in each Pharmaceutical Committee area in June, and the newly elected Committees take office on July 1. For the purpose of the elections, it is necessary for the returning officer in each area to compile two electoral registers: A (chemist contractors) and B (pharmacist employees engaged in retail practice or in hospital pharmacy). Compilation of the A register presents no difficulty, as the Pharmaceutical Lists for each Executive Council area provide the necessary information. For inclusion in the B register it is necessary for eligible persons to apply to the returning officer. The electoral area in which an employee is eligible to vote is determined by the Pharmaceutical Committee area within which he is employed and not the area in which he lives. In most Pharmaceutical Committee areas the returning officer is Mr. H. Noble. Except in areas listed below, pharmacist employees in retail practice or engaged in hospital pharmacy are asked to apply to him for inclusion in the appropriate electoral register. Application should be by postcard, addressed to "Returning Officer, Pharmaceutical Committee Election, 4/5 Queen Square, London, W.C.I," giving on the postcard the following information:—

(1) Name in full (block letters please).

(1) Name in full (block letters please).
(2) Pharmaceutical Committee area in

which employed.

(3) Name of contractor (or hospital) and

address at which employed.

(4) Private address and Pharmaceutical

Society's registration number.

Application should be made forthwith so that full particulars of the election, the appropriate nomination forms, and in due course the voting papers can be sent out.

Pharmaceutical Committee areas to which the announcement does not apply are Blackburn, Carlisle, East Ham, Grimsby, Huddersfield, Isle of Ely, Reading, Smethwick, Wiltshire, Scotland.

GUILD OF PUBLIC PHARMACISTS

THE branch delegates' meeting of the Guild of Public Pharmacists was held in London on March 31, the president (Miss M. C. Islip) in the chair. Fifteen of the seventeen branches were represented.

The first motion, which was defeated, called upon the council to consider a change in the name of the Guild to one more descriptive of the work undertaken by the members. The general opinion was that it would be a pity to change the name when it was becoming officially recognised.

A motion requesting the council to set up a subcommittee, representative of all regions, to formulate a policy for a group pharmaceutical service, was carried.

The third and fourth motions dealt with salary matters, but the third could not be discussed as the delegate of the branch which submitted it was absent. A motion on salaries passed after thorough discussion contained the points that there should be additional increments above the present maxima in all grades, with a few extra increments for chief pharmacists; that a fifth category should be added to the present scale for hospitals attaining 35.5 points or more and that the method of calculating points for mental hospitals and the "age bar" clause should be reconsidered.

The fifth motion concerned the remuneration which should be paid for duties undertaken by hospital pharmacists, in addition to their normal duties, including fees for lectures to nurses. The meeting appeared to be unanimous with respect to fees for nurses' lectures but felt that the motion was loosely worded and referred it back to the branch for clarification.

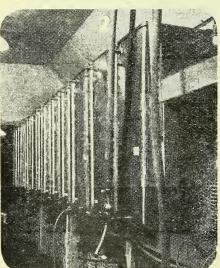
On a motion dealing with a proposal to increase the capitation fees payable to branches commensurately with the increase in the subscription, which could not be debated, the treasurer explained that an endeavour was being made to build up a reserve to meet any contingencies, and that if branches found themselves in financial difficulties, the council would deal with applications for help sympathetically.

Discussion on a motion which pressed for the recognition of a technical grade in pharmacy revealed the need for such a grade, and that delegates wanted the work which could be undertaken by such persons to be clearly defined.

The meeting considered that it would be unwise for the Pharmaceutical Society to become involved in any registration of holders of the Apothecaries Hall certificate and was opposed to any grant by the Society of certificates as dispensing assistants.

DUCHESS OF KENT AT AN ENGLISH PERFUME WORKS

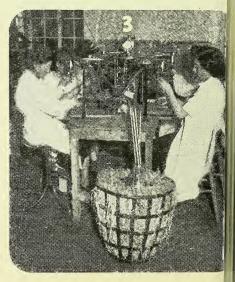






THE Duchess of Kent, shown above with Mr. D. R. Collins, managing director of Goya, Ltd., recently visited the company's works and laboratories at Amersham, Bucks. With him she toured the works, including the perfume laboratory under Mr. P. Johnson (seen with Mr. Collins in 1); the bulk storage department, with its 100-gall. containers (2); the filling of perfumes into phials (3); milling of mass for lipsticks (4); the tableting (5) and wrapping (6) of bath blossoms, and other processes.

Situated in rural surroundings, the building—originally a brewery—makes no claim to modernity, but careful planning has converted the interior into an efficient and pleasant production unit. The overall area of the two storey works is about 23,000 sq. ft., excluding outbuildings and a number of 1,000-gall, tanks of alcohol embedded in concrete in the grounds. Ris-





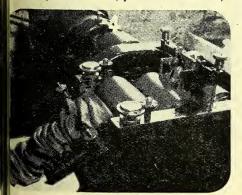
ing output and the frequent introduction of new products have caused congestion in some departments, and plans have been completed for the erection of an additional works in another part of the country.

There are two main laboratories, one for experimental and trial purposes and the other for testing materials and finished products.

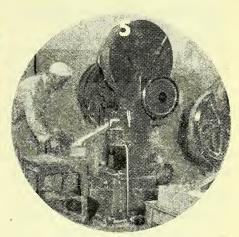
Buildings and Processes

The grinding and treatment of powders is carried out in sections separate from those in which creams are processed or inflammable liquids handled. The building concerned with pulverising, sifting and mixing materials for face powders, bath salts, talcum and dusting powders is linked with those equipped for filling, tableting, sealing, wrapping and packing. The bathtablet machines, devised at the works, turn out fifty-four tablets per machine per minute.

The production of high-grade perfumes is still the company's most important activity. In the materials stores natural oils, chiefly from Grasse, predominate over syn-

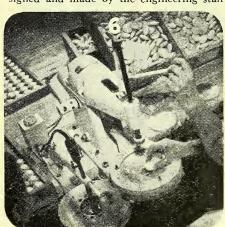


SEES GOYA PRODUCTS MADE AT AMERSHAM



thetic materials, and the stores also contain stocks of ambergris, civet, musk, etc. All raw materials are examined and tested prior to use. The finished perfumes are stored in batteries of 100-gallon tanks, and filled into the various sizes of retail containers by automatic vacuum machines. Two large rooms with conveyor belt systems are engaged in labelling, wrapping and packing these products for dispatch.

In the production of lipsticks the raw materials are milled, moulded, fixed into the metal holders, wrapped and packed without being touched by hand. The ingenious apparatus used for moulding and fixing the sticks into the holders was designed and made by the engineering staff.



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Dramyl

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De Jongh's cod-liver oil (small quantity)



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Official organ of The Pharmaceutical Society of Ireland, The Pharmaceutical Society of Northern Ireland. The Chemists' and Druggists' Society of Ireland and of other Chemists' Societies in the Empire. VOL. CLV APRIL 7, 1951 No. 3711

Complex Findings on Dental Caries

Work done by investigators at Newcastleon-Tyne on the possible value of ammonium or other salts in preventing dental caries (p. 451), adds valuable information to earlier American findings but also opens

up new problems.

On the question whether urea and dibasic ammonium phosphate should be included in dentifrices, the Newcastle workers do not commit themselves, having seen no convincing evidence that dental caries is significantly reduced by those compounds. They agree, however, that the use of such a dentifrice would keep alkaline the mouth and probably the plaque (a deposit supposed to act as a medium for the lodgement and growth of bacteria that cause dental caries) would depress acid production, and would destroy many organisms. The conditions of use are important, since in dilute solution, urea and salts have been shown to favour the growth of acid-producing organisms. So long as those organisms remain in the plaque, they can do little harm, for the acid they produce is neutralised by simultaneous production of ammonium from the urea. The plaque might, however, become a "natural breeding ground" for organisms later to be transferred to parts of the mouth in which they could cause danger - by acidifying the fluids to a level where decalcification would take place after the consumption of carbohydrate.

Since other workers have shown that sufficient acid is produced in the mouth after taking glucose to dissolve tooth enamel within two minutes, the fall in ph could conceivably occur in the early stages of a meal containing carbohydrates. That might indicate that dentifrices containing urea should properly be used before a meal—a procedure not likely to become popular.

Expert Advice on Purchase Tax

THE logical answer to the case made by the Federation of British Industries in its report to the Chancellor (p. 437) is the total abolition of purchase tax. The Federation has recognised, however, that present conditions make so drastic a reduction in indirect taxation unattainable in the short term. Its immediate practical suggestion is that a Purchase Tax Advisory Committee should be set up. The Committee would hear cases in which the tax in respect of certain goods is claimed to be having an injurious effect upon an industry or is against the national interest; would initiate inquiries with a view to locating anomalies and suggest remedies; and would advise the Chancellor on measures to ensure that the tax operates with the least harm to trade and industry as a whole and to the export trade in particular. The kind of tests the Committee might apply would be designed to show where utility schemes and high purchase tax cause the "fatal" attempt to manufacture two qualities in the same factories; where the home market is lost as a trial ground; and where loss of the home market so greatly reduces lengths of run as to put up costs to a level that shuts out overseas markets.

Television-screen Microscopy

ADAPTING a scanning spot-projection device similar to that used in television sets Professor J. Z. Young and Mr. F. Roberts ("Nature," 1951.167.231) have made, at the department of anatomy, University College, London, a microscope possessing many advantages over the conventional type. The normal optical system of a microscope is used in reverse. A televising device placed in the position of the eye-piece projects a tiny but brilliant spot of light on to a minute area of the specimen, and is caused to scan the specimen. The emer-

gent light falls on to a photo-cell, and the consequent electrical effects are amplified and transformed into a picture of the object that is projected on to a television screen 3 ft. square. In addition to the obvious advantages of such an image in teaching, measuring, and surveying, the apparatus can be used for quantitative analysis of, for example, biological cells-a neglected field in microscopy. The inventors claim that the instrument can use infra-red and ultra-violet rays, that contrast is easily controlled, facilitating the study of unstained specimens; that alteration to living specimens viewed with ultra-violet light is less likely than with the conventional type of instrument; resolution is greater, and the need to change objectives less (as a corresponding electrical change can be made). Development of the instrument continues.

Insurance Against Bad Debts

WITH costs of raw materials, wages and over-heads rising, and cash reserves depleted by a higher level of taxation, many traders are finding it increasingly difficult to meet their obligations to suppliers. Moreover, banks have recently become more cautious in extending loans and overdrafts. The resulting financial uncertainty has prompted more and more manufacturers and merchants to insure against bad debts. In 1950 the amount insured was five times as much as in any year before the war. The risk for which cover is required is loss due to the insolvency or protracted default of buyers to whom goods have been delivered ("protracted default" is failure to pay a debt for goods delivered on credit terms within ninety days of due date). The cover can be extended, however, to include contractual loss of goods that cannot be delivered by reason of buyers' insolvency or protracted default. It is also possible to insure credits opened or cash advances made by purchasers of goods in anticipation of deliveries. Premiums (which are on the average low) are calculated as a percentage of the gross turnover of transactions or of the gross amount owing at one time, according to the type of policy. In general, policies fall into one of two categories: (a) Policies

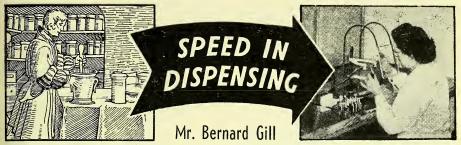
covering named buyers; and (b) whole turnover policies covering all the business of an insured person. In the second class the lowest premium rates apply to firms selling raw materials to manufacturers (where the customers are usually well established and credit terms short).

Retail Sales in 1950

Since the end of the war retail sales in independent chemists' shops have tended to decline relative to those of multiple organisations. The tendency has been even more marked in the year 1950. Board of Trade figures show that the total sales of chemists' wares during the year were 9.5 per cent. higher than for 1949, the second quarter showing the heaviest increase (13.2 per cent.). The largest contributions were made by multiple shops and co-operative societies, whose turnovers were up 10 per cent, and 8 per cent, respectively, while that of the independent retailer was only 2 per cent. higher. One probable reason for this result is that the attention of the private chemist is being diverted by the National Health Service from the counter. A recent survey conducted by a commercial organisation showed that N.H.S. in the smaller and medium-class private chemist's business represented 32-33 per cent, of the turnover but only 24 per cent. of that of the multiple establishment.

Local Action

THE letter sent by the chemist-contractors of Hendon and Edgware (p. 437), through chairman and secretary of their National Pharmaceutical Union Branch, to their Member of Parliament is worthy of support by similar letters from other branches. It does much to strengthen, and nothing to weaken, pressure applied centrally by the Central N.H.S. (Contractors) Committee. It is couched in studiously reasonable and moderate terms and it can hardly fail to imprint on the Member's mind a clear picture of the injustice that is being caused by continued failure of the Ministry of Health to come to a decision on a matter that closely concerns the smooth running of the Health Service and therefore the welfare of the community.



describes time-saving devices that he has used as a qualified locum

ITH simple apparatus and by careful planning a pharmacist may speed up the routine work of his establishment, and enable the staff to deal more rapidly and efficiently with prescriptions.

Coping With Prescription Forms

For example, to prevent E.C.10's piling up on the dispensing counter during ruch periods, a length of metal curtain rail, furnished with runners and hooks, may be fitted at a convenient height above it (see Fig. 1). As the forms are handed in they are marked (in the space reserved for the chemist's stamp) with a code sign indicating whether the customer is waiting or calling later at a stated time, and whether a bottle or other container has been brought by the customer. The form is then attached with a clip to a hook on the curtain rail, and as the forms accumulate they are run along it to make room for later ones. The dispenser can thus see at a glance which prescriptions are urgent, and can deal with them in order of priority. Finished work is put on a shelf reserved for that purpose. When the prescription is completed, it is stamped with the name and address of the chemist and filed. If it is desired to number the prescriptions consecutively, as a check on the final sorting and counting, an automatic stamping machine, which numbers each form successively, may be used.

Speeding-up Filtration

Filtering, usually a slow process, may be speeded up by using a low-pressure filter. A suitable apparatus (obtainable from L. Bonnett, scientific instrument maker, 208 Chesterton Road, Cambridge) enables solutions to be filtered under reduced pressure through a Gooch crucible, a sintered glass funnel, or filter paper in porcelain

Buchner funnel. The apparatus is a truncated hollow cone fitted with a rubber washer. The cone is soldered into a cylindrical brass tube furnished with two side arms. One arm is connected with the vacuum pump, the other is fitted with a release valve so that the container may be easily removed when the filtering process is completed. An ingenious adaptor (see Fig. 2), the invention of a practising pharmacist, makes it possible to filter direct into a container, which may vary in size from a ½-oz. phial to a winchester. An Edwards water-jet vacuum pump enables a difference of 12 lb. per sq. in. pressure

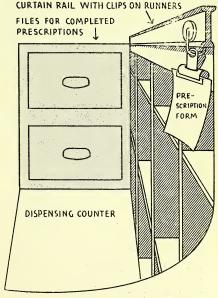


Fig. 1. Prescription-rail.

between the atmosphere and the evacuated container to be obtained. The adaptor is so designed that the reduced pressure seals the container in position.

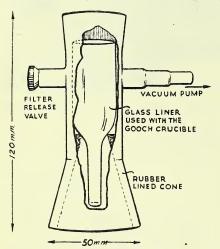


Fig. 2. Reduced-pressure filter.

Pouring Viscous Liquids

Pouring viscous liquids, such as syrup, medicinal paraffin, Gee's linctus and gly-cerin into patients' bottles, takes time and often involves waste. A semi-automatic bottle filler has been devised (see Fig. 3) that fills bottles from any size of stock container without danger of overfilling. As the glass parts are made of acid tubes and the rubber of douche tubing, the device costs only a few shillings, and is easily cleaned. In construction it resembles the filter described above. The rubber tubing carries the liquid from the stock container to the bottle to be filled, the mouth of which is pressed on to the washer on the disc at the bottom of the metal tube to make an airtight joint. The flow is started by closing the aperture with the tip of the index finger, and when the container is full the vacuum is broken by removing the finger. For filling small bottles a pointed glass liner is preferable to the one illustrated in the diagram.

For rapid mixing of ointments a plateglass slab with electric lamps fitted beneath gives heat for softening the ointment base and light for inspecting the product to make sure that is is smooth and homogeneous. A convenient site for the slab may be prepared by removing a top drawer from the dispensing bench and cutting out a hole in the counter about 1 ft. square. A hardwood frame, raised slightly above the level of the counter to facilitate cleaning, holds the glass firmly (see Fig. 4). If desired, the base of the frame may be closed with 20-gauge aluminium and the inside painted with aluminium paint. Heat and light are supplied by two 8-in. long

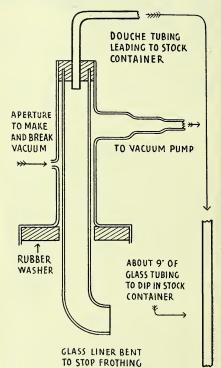


Fig. 3. Semi-automatic bottle-filler.

60-watt tube lamps placed parallel. To prevent dazzle the tops of the lamps are painted, or the glass slab may be rendered semi-opaque by rubbing it with carborundum suspended in soap solution.

Uses of Emulsifiers

Small-scale apparatus within the means of every contractor includes also bottlewashers, emulsifiers, ointment mills and tablet counters.

An electrically driven emulsifier or homogeniser may be put to a multitude of uses—for example, a large batch of chloroform water may be made in one minute; calamine lotion may be prepared without the use of pestle and mortar, and suspensions of bulky powders, such as light carbonate of magnesia, may be mixed

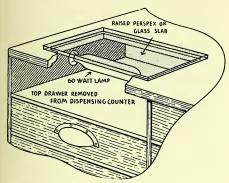


Fig. 4. A qu'ckly-fitted warmed ointment-slab.

without enveloping the operator in a cloud of dust. A constant supply of hot water may be obtained conveniently by installing a gas or electric heater. If electricity is used thermostatic control prevents waste of current. An automatic water still is a good investment when distilled water is in constant demand.

Eliminating Unnecessary Effort

When a rinse-out is the only cleaning a bottle requires, time is saved by using a press-valve tap, by means of which a powerful jet of water is squirted into the bottle by inverting it over the nozzle and holding it down for a few moments.

Devices and time saving methods include special racks for bottles, open cork bins, and label-storing systems. In the author's experience, drawers are to be avoided for storing labels, corks, and the boxes or cartons used for tablets, pills, capsules and ointments, because the continual opening and shutting of drawers wastes time and energy. Oblong labels may be kept flat in a metal frame fixed vertically to a wall, a sprung wire enabling one label to be taken out at a time. Round labels are most easily picked up from lidless ointment boxes attached to the counter with a drawing pin.

Labour-saving devices welcome to the locum include the V-shaped tablet-counting tray. Dispensers who use this gadget save many hours in a month's work, and avoid the fatigue and tedium of continual counting. For moistening old labels to

ease their removal I like a mixture of methylated spirit and water (contained in a paste-pot with stiff brush fixed in lid).

Stains Avoided

By delivering the required quantity of Bordeaux B and trypan blue from a bottle fitted with the glass tube of an eye dropper, staining of the hands is avoided.

Cleanliness and tidiness are obviously of primary importance to speed and efficiency in the dispensary, yet a congested work-bench is all too common a sight behind the dispensing screen. Apart from the gain in efficiency, a well organised dispensary gives customers the impression, even during a rush hour, that the dispenser has plenty of time to give adequate care to the compounding of every prescription.

PHARMACEUTICAL SOCIETY OF NORTHERN IRELAND

The monthly meeting of the Council of the Pharmaceutical Society of Northern Ireland was held in Belfast on March 16, the president (Mr. H. W. Gamble) in the chair. Also present were Messrs. W. H. Boyd (vice-president), H. P. Crossin (treasurer) S. E. Campbell, J. Irwin, W. P. Ewart, H. H. Cowzer, J.P., P. R. W. Shinner, J. McGregor, W. C. Tate, J. Abernethy, Dr. H. D. Heazley and Professor E. B. C. Mayrs, M.D. The secretary (Mr. W. Gorman) was in attendance. Mr. H. F. Moore sent an apology for absence.

The co-option of Mr. H. G. Cousley, Magherafelt, as a member of the Council in place of Mr. James McDowell, who has retired, was moved by Mr. Shinner, who said that Mr. Cousley was keenly interested in pharmaceutical progress and would be a valuable addition to the Council. Mr. McGregor, seconding, said Mr. Cousley would strengthen the representation of the country areas. The proposal was approved unanimously. The president said he had had an opportunity of speaking to Mr. Cousley, who, he was pleased to say, had accepted the position.

Certificates of apprenticeship were granted to James G. Kilbride and Neal J. McKenna, both of Londonderry. The nomination by the Ulster Chemists' Association of Messrs. C. A. Quinn and J. Caldwell as representatives on the committee of the Ulster Chemists' Benevolent Fund was accepted. The Association was granted permission to use the Society's rooms for a lecture on March 29.

BIOLOGICAL STANDARDISATION

Abstract of an address given by Dr. F. J. Dyer (deputy director, Laboratory Animals Bureau, Medical Research Council and formerly of the Society's research laboratories) at an Evening Meeting of the Pharmaceutical Society in London on March 5.

The modern concept of a unit for biological potency derives from the pioneer work of Ehrlich on diphtheria antitoxin. In 1922 an International Standard for diphtheria antitoxin was set up by the League of Nations Health Organisation, when the unit of potency was defined as "a certain weight of a dried standard preparation of antitoxin." Dr. A. A. Miles, in a striking address to the biological methods group of the Society of Public Analysis in 1948, defined the conditions appertaining to all standard preparations "both those set aside by the solitary research worker to give himself a base line, and the International Standards accepted for use throughout the world."

Hormones, enzymes and other products of animal origin are now associated with numerous vitamins, antibiotics and synthetic chemotherapeutic agents as formidable weapons against deficiency or disease. Animal experiments—perhaps "animal reagents"-have been pressed into service in identifying, assessing the potency, and improving the purity of most of the newcomers. In 1912 Hopkins, using rodents as reagents, developed the fat-soluble vitamin story which was soon paralleled in other countries by similar stories of accessory food factors requiring standardisation. In 1922, a life-line, insulin, was thrown to the diabetic sufferer, and that hormone was required to be standardised before reaching the patient. Digitalis defied the chemical analyst and called for some form of biological control. The obstetrician was looking to pharmacy for standardised extracts of the pituitary gland, with its valuable property of contracting the gravid uterine musculature. Those substances and others had defied physical or chemical standardisation. They demanded biochemical or pharmacological standardisation,

Therapeutic Substances Act

Enlightened scientific opinion led to the passing of the Therapeutic Substances Act in 1925. Manufacturers of the substances named in its schedules were not all able to meet its demands for biological control of their products. Tribute must be paid to pharmaceutical manufacturers who not only made a practice of routine animal experiments but were pioneers in research.

The Department of Biological Standards was a creation of the National Institute for Medical Research, and was directed formerly by Sir Percival Hartley and now by Dr. A. A. Miles. The Department is the "depository" of International Standards and also carries out research into all branches of scientific endeavours connected with international standards. In 1925 the Medical Research Council rendered signal service to pharmacy when the Council of the Pharmaceutical Society, stimulated by the Therapeutic Substances Act, 1925, sought to establish a laboratory to control drugs biologically. Not merely were advice and encouragement given but a pharmacologist was seconded to pharmacy when Dr. J. H. Burn became the first director of the Society's Pharmacological Laboratories. Its present chief is Professor G. A. H. Buttle (the successor to Professor J. H. Gaddum).

Pharmaceutical Society's Laboratory

The original terms of reference of the Society's pharmacological laboratory were: (1) To carry out routine biological assays on manufacturers' samples of therapeutic substances not amenable to chemical methods; (ii) to train pharmacists and others in methods of biological standardisation; and (iii) to pursue research work into methods of biological standardisation and cognate problems. The growing numbers of routine tests made from 1929 to 1949 on digitalis, pituitary (posterior lobe) extract, and toxicity tests on new industrial synthetic compounds are illustrative of the demands made upon the services of the department.

Between 1928 and 1938 vitamin preparations figured prominently but progress led to the self-extinction of most vitamin bioassays, with consequent reduction of income and staff. The animal reagent gave place to physical and chemical technique when the undefined factor evolved into the crystalline synthetic organic entity.

Many personnel trained in the principles and practice of biological standardisation passed through the laboratory, and several well-known pharmaceutical houses, hospitals and universities include on their staffs many who were trained in the laboratory. The output of 836 research papers over

the years 1927-45 probably helped to pave the way to the fuller recognition of an aspiring college, which later realised its dreams of autonomy as the School of Phar-

macy, University of London.

Bioassay, as modernly conceived, involves several components: (a) The assayist; (b) the standard; (c) the test substance; and (d) the reagent(s) (partly at least, animal). With (a), (b) and (c) pharmacy is making a contribution. The Department of Pharmacology participated in the assay of the renewed International Standards for digitalis (1932 and 1949) and of pituitary (posterior lobe) substance (1944). Pharmaceutical organisations, wholesale and academic, are producing animal colonies for experimental purposes, routine and research. These animals, those using them, and the public are safeguarded by the workings through Home Office inspectors of the Cruelty to Animals Act (1876). It is not accidental that seventy-five years of just, discreet and sympathetic administration of the requirements of the Acts have run parallel with unprecedented advances in physiological discovery, both animal and human, including advanced in biological standardisation. The work of the Research Defence Society is gratefully noted.

Control of Variation

Two methods have been used in an attempt to limit the variability in response of members of a group of animals to a dose-stimulus: (i) The use of a closed colony combined with litter mate distribution between "test" and "standard" groups; (ii) the use of genetically pure-line animals. Nutrition research workers have used the first method with a considerable degree of success whilst the outstanding use of pure-line animals has been for experimental tumour investigations. In bioassay, however, we have very little reliable experimental evidence in favour of or against the use of "pure-line" animals compared with closed colony or even mixed breed animals.

The factors that are probably responsible for irregularity of response to drugs are: (a) Dietary differences; (b) disease; (c) ease of adaptation to a new environment (e.g., from the breeder's to the user's animal house) and (d) the genetic pattern.

Three or four years ago, as a result of the unreliability of supplies of experimental animals, the Medical Research Council formed the Laboratory Animals Bureau. Its first director was Mr. R. E. Glover, . M.A., M.R.C.V.S. and its ultimate concern is "better and more regular supplies of sound laboratory animals." The new director is Dr. W. Lane-Petter. A scheme of accreditation for commercial animal breeders is in force. Already the United Kingdom has been surveyed, and there are many eager participants in the scheme. The Bureau collates and indexes information on diets, bedding, feeding and watering apparatus, materials for and sizes of the optimum house for animals of different species. Research into the question of whether a pure-line animal is necessary for specified bioassays is being encouraged by the Bureau's advisory committee. A small ad hoc expert committee is to help the bureau's research staff to collect and publish its findings.

Experiments on Mice

It is proposed to breed pure-line mice, and separately a reliable closed colony and, when enough suitable offsprings are available, to carry out a limited number of different types of bioassays using pure and mixed breed mice. The results from several expert participating laboratories will be subjected to statistical analysis.

Answering a question from Dr. J. A. Giles, Dr. Dyer said that in the setting up of one closed breeding shop to supply laboratory animals to all parts of the country there was the danger of an epidemic wiping out the whole supply. The existence of several closed breeding shops was a safeguard as an epidemic in one would not be transmitted to any other.

A PHARMACIST'S ANTHOLOGY

MR. LINTON, the young assistant [of Mr. Pestler, the medical man], who doctored the servant-maids and small tradesmen . . . was a personable young gentleman, more welcome at Mrs. Sedley's lodgings than his principal; and if anything went wrong with Georgy, he would drop in twice or thrice in the day to see the little chap, and without so much as the thought of a fee. He would abstract lozenges, tamarinds, and other produce from the surgery drawers for little Georgy's benefit, and compounded draughts and mixtures for him of miraculous sweetness, so that it was quite a pleasure to the child to be ailing.—From "Vanity Fair," by W. M. Thackeray.

GUIDE TO NEW MEDICAMENTS CORTEXOL

MANUFACTURER: Camden Chemical Co., Ltd., 61 Gray's Inn Road, London, W.C.I. Description: A 1/5000 weight-in-weight adrenaline cream.

INDICATIONS: Chronic rheumatism, fibrositis, etc. Use: By massage.

How Supplied: 2-oz. and 16-oz. containers.

Notes: The preparation is stabilised and tested for adrenaline content before issue.

BENECARDIN

Manufacturer: Benger Laboratories, Ltd., Holmes Chapel, Ches.

DESCRIPTION: Crystalline khellin (obtained from the seeds of Ammi visnaga (Linn.)).

Indications: Angina pectoris, coronary thrombosis and occlusion, bronchial asthma and chronic cor pulmonale.

Dosage: 100-300 mgm. immediately after food.

How Supplied: In bottles of twenty and 100 25-mgm. tablets.



NH-CO-CH, -N(C, H,),

HYDRO-BILEIN

MANUFACTURER: Abbott Laboratories, Ltd., Perivale, Greenford, Middlesex.

Description: Sugar-coated tablets containing ox bile (dried and purified) and dehydrocholic acid, of each gr. 2.

Indications: Choleretic for use in replacement therapy, flushing of biliary tract, postoperative management of cholecystic disease, x-ray screening. Contraindications: Biliary obstruction; severe hepatitis.

Dosage: One tablet, two to four times daily. How Supplied: In bottles of 100 tablets.

XYLOCAINE DUNCAN

MANUFACTURER: Duncan, Flockhart & Co., Ltd., 104 Holyrood Road, Edinburgh, 8.

Description: Hydrochloride of diethylaminoacet-2,6-xylidide.

INDICATIONS: Local anæsthesia in obstetrics and dentistry.

Use: In solutions (see below) by injection.

How Supplied: Without adrenaline, in solutions containing 0.5, 1, and 2 per cent. Xylocaine in 20-mil vials. With adrenaline, same concentrations and sizes, with the addition of adrenaline 1:100,000 (for the

0.5 and 1 per cent. solutions) and 1:80,000. Xylocaine (adrenaline) 2 per cent. special contains adrenaline 1:50,000.

CUPRIMYL

Manufacturer: Pharmaceutical Specialities (May & Baker), Ltd., Dagenham, Essex.

DESCRIPTION: Cupric 8-hydroxyquinoline bis-(diethylamine sulphonate) or cupric bis (8-oxyquinoline di-(diethylammonium) sul- (C,H,),NH,HO,5 phate). Common name cuproxoline. green crystalline powder, soluble in water, and containing 6.59 per cent. copper.

Indications: Rheumatoid arthritis, psoriasis

50,H,NH(C,H,) 1 50,H,NH(C,H,), 50, HNH(C2H5)2

arthropathica, polyarticular hydrarthrosis, chronic polyarticular gout.

Dosage: 500 mgm. by intramuscular injection, twice or thrice weekly for six weeks.

How Supplied: In boxes of ten 5 c.c. ampoules of 10 per cent. injection solution containing 25 mgm. of procaine hydrochloride in each 5 c.c.

A STUDY OF SALIVARY ACID INHIBITION

THE effect of urea and ammonium salts in inhibiting the production of acid by organisms in the saliva has been studied by Jenkins and Wright, King's College, Newcastle-on-Tyne ("British Dental Journal," 1951.40.117-30). They were endeavouring to explain important findings reported by Kesel and colleagues in America. Contrary to the American results, the British workers found that the ammonium salts were only slightly more active in inhibiting salivary acid producing organisms than many other salts, including sodium phosphates, sodium and ammonium acetates and bicarbonates, and sodium chloride. The ammonium ion appeared to play, moreover, no specific part in any of the reactions they studied. High concentrations of urea and salts in general inhibited acid formation, but low concentrations by contrast stimulated it. The experiments were conducted in vitro, using glucose solutions as media, and either pure cultures of Lactobacillus acidophilus or normal (organism-bearing) saliva; all were controlled (using water).

Importance of pH

An important finding was that the pH value of the medium played an important part in deciding whether or not a salt inhibited lactic-acid production; the concentration of salts (sodium or ammonium) needed for inhibiting acid-production was always considerably less at alkaline ph values. 4 per cent. sodium phosphate buffers, for example, were inhibitory at about ph 8, but not at ph 5; 2 per cent. sodium and potassium chlorides inhibited at pH values of about 9 but were practically useless in acid or neutral solutions. The conclusion reached was that the inhibiting effect of alkaline ammonium salts was a combination of salt-action, alkalinity, and sufficient buffering power to maintain the alkalinity. The slight superiority of ammonium salts over sodium salts was attributed to the well established fact that the ammonium ion was more toxic than the sodium.

Sodium Replaces Ammonium

In the experiments a solution of 1.2 per cent, urea and 2 per cent, dibasic ammonium phosphate was strongly inhibitory to growth of pure cultures of Lactobacillus acidophilus but the ammonium phosphate was replaceable by dibasic sodium phos-

phate. Urea alone in concentrations above 2 per cent. was inhibitory. As the presence of dibasic ammonium and disodium phosphates protected the urea by inhibiting the enzyme urease, it was thought that urea was partly responsible for the inhibitory powers of urea ammonium-phosphate mixtures. In addition, the salts reinforced the inhibitory action of 1.2 per cent, urea by mechanisms which the authors had not yet elucidated. There were a number of possible explanations of that reinforcement. First, the phosphate might act as a buffer to prevent a drop in рн towards the optimum for lactic-acid production. Secondly, the salivary acid-producing organisms might be more sensitive to urea at an alkaline pH in the same way as they Thirdly, there appeared to be to salts. might be an additive effect of urea and salts at an alkaline pH—an explanation that did not apply to the results of experiments with low concentrations of urea, for the salts there enhanced the acid-production stimulating effect. The enhancement was thought to result from the possible maintenance of the pH value near to the optimum for acid production during the hours of incubation.

Urea alone, in a concentration of about 8 per cent., reduced acid production by organisms from the saliva, but 16 per cent. was required for complete inhibition. In the presence of phosphates or sodium chloride, inhibition was complete with 8 per cent. urea.

P-1

Effect of Dentrifrices

For some time after the use of a dentifrice containing approximately 20 per cent. urea and 5 per cent, dibasic ammonium phosphate, the pH of the mouth and probably of the plaque (a deposit of material upon the surface of the tooth) was thought to remain alkaline; acid production was depressed, and many organisms destroyed. It had not been shown convincingly, however, that dental caries was significantly reduced as a result. The belief was widely held that the invasion in dental caries was initiated by an attack of enamel protein by unknown organisms rather than by decalcification by acid. If that were true it could not be predicted whether urea ammonium-phosphate mixtures would-be effective in reducing caries, though it was possible that proteolytic organisms were among the range of organisms inhibited by the mixtures.

TRADE REPORT

Spot quotations for pharmaceutical chemicals represent the prices for wholesale quantities of standard quality. Prices of crude drugs and essential oils vary as to brand or grade.

London, April 4

The most outstanding development of the week has been a very considerable advance in prices of Alcohol, New rates for Plain British Spirit and other grades of Ethyl alcohol and the various grades of METHYLATED SPIRITS are approximately double former prices. The rise in spirits has been brought about by a substantial increase in the price of cane molasses. As a result of the higher cost of alcohol a large number of chemicals derived from it are increased in price including ACETIC ACID and ACETIC ANHYDRIDE, BUTYL ALCO-ACETATES and PHTHALATES. In PHARMACEUTICAL CHEMICALS a number of rises are announced and several others are anticipated in the new future. ETHER, solvent and anæsthetic, B.P., ACETANILIDE and ACETOPHENONE have risen already. New prices are awaited for Aspirin and DDT, while it is expected that Paraldehyde will also increase in price. A further development in the market is the upward movement (50s. per cwt.) in the price-of GLYCERIN: the minimum rate for chemically-pure glycerin, B.P., is now 275s, per cwt. GLYCEROPHOSPHATES have also risen. In view of the higher cost of non-ferrous metals, ZINC ONIDE has advanced by a further £8 per ton as from April 2; pharmaceutical quality in minimum 2,ton lots is now £193 per ton mum 2-ton lots is now £193 per ton.

Less Demand for Crude Drugs

The CRUDE DRUGS market has been relatively quiet during the past week and it is apparent that consumers are showing greater reluctance to buy at the current high level of prices. In some directions, merchants are finding the market slightly easier, with Cape Aloes affoat reported as offering at 295s., c.i.f., and for prompt shipment at 10s. less than this price. IPECACUANHA remains in very short supply with no offers of spot supplies though there is a parcel of Colombian now affoat. Offers of Nicaraguan root, for shipment in August or thereabouts, are at 62s. 6d. per 1b., c.i.f.; no offers are being made of Brazilian ipecacuanha. Ergot is firmly held at late prices but little business is being done. Further supplies of Tollu Balsam should arrive shortly, but Peru and Copaiba Balsams are still unobtainable. Chinese Menthol remains steady. The recently-imposed export tax on menthol from China is not reflected in prices. Camphor has gained slightly in price. Gums have been quiet: Gum Acacia is lower in price as a result of greater quantities now becoming available. In Waxes, little interest is being shown in Beesswax and the forward market is

a trifle easier. Prices of Shellac have again declined with fewer buyers. In the Spices market, Cloves have been weaker but in other directions few changes of prices are noted.

ESSENTIAL OILS are receiving only a small inquiry; the market generally, however, is steady, but Anise is showing weakness at the origin and spot prices are declining. A large number of Aromatic Chemicals have advanced in price, reflecting the increase in alcohol, including Anyl acetate and Amyl salicylate, which have risen by 1s. 6d, and 9d, per lb., respectively, and Butyl benzoate which is 4d. per lb. dearer. Coumarin has increased by 1s. 6d. per lb. (1-cwt. lots are now 19s. 3d. per lb.). Eucalyptol is up by 2s. 6d. per lb. and the minimum price is now 15s. per lb.

U.S. Drug and Chemical Report

New York, March 30

An active demand has been received for FINE CHEMICALS. In the re-sale market odd lots of Sodium bicarbonate, U.S.P., are held at 4½ cents, per lb, Sodium perborate and Hydrogen peroxide are very short and re-sale lots of the former are quoted at 30-32 cents per lb. Rising costs of foreign material, in the face of ceiling price restrictions, have served to aggravate the already short supply position of TAR-TRATES, while other products in short supply include Potassium permanganate, Citrates and Benzoic acid. From March 20 BENZENE HEXACHLORIDE and products containing it together with SEBACIC ACID and DDT have been added to the positive list of commodities requiring validated export licences for export to all territories, excluding Canada, Menthol is a weak market with spot quotations as low as \$12.85 to \$13 per lb. though sellers are shading the lower figure for near afloat parcels; it is thought however that a better tone is in prospect in view of the price being paid for new-crop PEPPER-MINT OIL in Brazil. A considerable amount of activity has developed in natural powdered Camphor owing to a brisk export defen CAMFIOR Owing to a DISK cappuded demand for India. Spot supplies have been greatly depleted. The CRUDE DRUG markets have been quiet because of current price regulations. Tolu and COPAIBA BALSAMS have been raised in price, the quotient of the control of the control of the cappude to the control of the cappude to the control of the cappude to th tations being virtually nominal owing to the scarce supply position of these articles. Peru balsam is dearer with quotations at from \$2.50 to \$2.75 per lb, for spot material. Little or no Nicaraguan IPECACU-ANHA is being offered while no offerings of new-crop CASCARA SAGRADA have as yet been received. A slightly better inquiry

is reported for Kamala. Papain remains firm. A recent demand for Curação Aloes has taken up practically all available macanh. Gum acacia, Karaya and Tragacanth are all firm markets.

The Essential Oils markets have been quiet with traders awaiting new pricing regulations for imported oils. Quotations for Clove are nominal. Higher prices are asked for Bergamot, Spike lavender and Wormwood oils. Based on anticipated replacement costs from Italy bergamot, it is thought, would have to sell here at between \$9 and \$9.50 per lb. Ceylon Citronella, Lemongrass and Patchoult remain firm. Lemon has gained added strength, as a result of high prices prevailing in Italy and shortages of domestically-produced oil. Speamint is dearer, with spot prices from \$5.60 to \$5.75 per lb.

Pharmaceutical Chemicals

ACETANILIDE.—Dearer. 1-cwt. lots are now 2s. 11d. for crystals and 3s. per lb. for powder.

ACETARSOL.—Prices range from 40s. to 44s. per lb., as to quantity.

Ammonium chloride, B.P. — Makers quote 1-cwt. lots at $11\frac{1}{2}d$. per lb.

BISMUTH SALTS.—Current rates (per lb.) are as follows:—

	1_	I-cwt.	28-lb.	1 7-lb.
CARBONATE		s. d.	s. d.	s. d.
CITRATE		27 8	27 11 23 9	31 6½ 26 10
SALICYLATE	.,.	23 3	23 6	26 5
SUBGALLATE SUBNITRATE		24 5 23 6	24 8	27 10½ 26 10

Bromides. — Current rates per lb. for Potassium (crystal), Ammonium and Sodium are as follows:—5-cwt. lots, 3s. 1d.; 1-cwt., 3s. 2d.; 28-lb., 3s. 11½d.; 7-lb., 4s. 3d. Potassium in powder is ½d. per lb. more.

Calciferol.—Basic price of 500-gm. lots is 5s. 9d. per gm.; 100-gm., 6s. 6d. per gm. Calcium succinate. — Quotations are from 10s. 6d. to 12s. 6d. per lb., as to quantity. Succinic acid is from 10s. 3d. to 12s. 3d. per lb.

CHLOROCRESOL.—Pharmaceutical quality is quoted at 5s. per lb. in 1-cwt. drums.

ETHER. — Higher prices took effect on April 2. Technical, B.S.S., and Solvent, B.P., in winchesters are (per lb.) as follows:—10-cwt. lots, 2s, 8½d.; 5-cwt., 2s, 9½d.; 48-lb., 2s, 10½d.; 24-lb., 3s, Rates for Anæsthetic, B.P., in winchesters are:—10-cwt. lots, 3s, 9½d.; 5-cwt., 3s, 10½d.; 1-cwt., 3s, 11½d.; 72-lb., 4s, 0½d.; 36-lb., 4s, 2½d.; 24-lb., 4s, 4½d. In 1-lb. bottles, prices are 2½d.; in ½-lb. bottles, 7½d.; and in ½-lb. bottles, 1s, 4½d. per lb. more than the above prices. In drums, prices are 1½d. per lb. less than corresponding winchester prices. Containers are charged and are returnable,

GLYCERIN.—New rates from April 1 for chemically pure (B.P.) are as follows:—

	Under 1 cwt.	1 cwt. and under 5 cwt.	5 cwt. and under 1 ton:	1 ton and under 5 ton.	5 tons and under 25 tons	
Minimum deliveries off con- tract of		ı cwt.	ı cwt.	5 cwt.	10 cwt.	
Per Cwt.	s. d.	s. d.	s. d.	s. d.	s. d.	
14-lb.	312 0	307 6	303 6	299 0	297 6	
28-lb.	310 0	305 6	301 6	297 0	295 6	
56-lb.	306 o	301 6	297 6	293 0	291 6	
Drums	300 0	301 0	297	-95	-9-	
I-cwt.		280 0	285 0	280 6	279 0	
21-cwt.		286 6	283 0	278 6	277 0	
5-cwt.			282 6	278 0	276 6	
10-cwt.	_		281 6	277 6	276 0	
	1					

25 tons and upwards (minimum delivery off contract of 2 tons), 14-lb. tins, 296s. 6d.; 28-lb., 294s. 6d.; 5-6-lb., 290s. 6d.; 1-ewt. drums, 278s.; 2½-ewt., 276s.; 5-ewt., 275s. 6d.; 10-ewt., 275s. Extra charges are made for smaller deliveries ex contract of from 6d. to 2s. Tins and cases free, glass packages and iron drums charged extra and returnable. Drums will be credited in full only if returned carriage forward in good condition within four months of date of invoice; if retained beyond six months their intrinsic value only will be credited, which will not in any case exceed two-thirds of the invoice price. Terms: 2½ per cent. monthly account, afterwards net. (Refined pale straw industrial grade is 5s. per cwt., less than above).

GLYCEROPHOSPHATES.—New rates per lb. for 28-lb. lots are as follows: ACID, 20 per cent.. Ss. 10d.; Calcium, soluble, B.P.C., 14s. 9d.; Iron, B.P.C., scale, 17s. 9d. and powder, 16s. 9d.; Magnesium, soluble, B.P.C., 21s. 6d., and insoluble, 12s. 3d.; Manganese, 30s.; Potassium, 50 per cent., 6s. 1d., and 75 per cent.. 8s. 6d.; Sodium, 50 per cent., 4s. 8d., and 75 per cent., 6s. 6d.

NICOTINIC ACID.—Quotations are about 43s. 6d to 45s. 6d. per lb., as to quantity.

ROCHELLE SALTS.—Rates (per cwt.) for powder or granulated material are: 5-cwt. lots, 200s.; 1-cwt., 202s. 6d. Smaller quantities are from 2s. 3d. to 2s. 6d. per lb. Seidlitz Powder, ordinary strength, is 154s. 3d. per cwt. in 5-cwt. lots; 1-cwt., 156s. 3d.; smalls, from 1s. 10d. to 2s. 1d. per lb. Extra strong is 166s. 9d. and 168s. 9d. (smalls, 1s. 11d. to 2s. 2d.) for similar quantities, and double strength, 173s. 9d. to 176s. per cwt. (2s. to 2s. 3d. per lb.).

ZINC OXIDE.—Prices advanced by £8 per ton on April 2. New minimum (2 tons) rates are as follows:—B.P., £193; white seal, £181 15s.; green seal, £180 15s.; red seal, £179 5s.

Crude Drugs

Agar,-Kobé No. 1 on the spot is from 9s. 3d. to 9s. 6d. per lb., duty paid. For April-May shipment from Hong Kong, 9s. 10d., c.i.f., quoted.

ALQES.—In some directions the market is easier. Business has been done in Cape on the spot at 305s, per cwt. Parcels afloat are from 295s, to 297s, 6d, per cwt., c.i.f.; for shipment, prices show a wide divergence and range from 285s, to 312s. 6d., c.i.f.

Belladonna.—Root on the spot is offered at 4s. per lb.; leaves, 4s. 3d. per lb.

Benzoin. — Easier. Sumatra block on the spot is quoted at £29 to £30 per cwt.; for shipment, £27 10s., c.i.f. Siam almonds on the spot are about 37s. 6d. to 38s. per lb.; broken almonds, 26s. 6d. to 30s.; siftings, 20s. per lb., spot.

Buchu.—Old-crop short rounds on the spot are nominally 2s. 2d. per lb.; new-crop, April-May shipment, 1s. 10½d., c.i.f. Camphor. — Firm. Chinese powder, B.P., is from 5s. to 5s. 3d. in bond (5s. 3d.

to 5s. 6d. per lb., duty paid); for shipment, 6s., c.i.f. Tablets (4-oz.), 6s. in bond (6s. 6d., duty paid).

Canada Balsam.—Spot offers are being made at 27s. 6d. per lb.

Cantharides.—Chinese are quoted for April-May shipment from Hong Kong at 6s. 4d. per lb., c.i.f.

Cascara sagrada.—Steady. 1950 bark on spot is 385s. to 390s. per cwt., duty paid (350s. per cwt. in bond).

Chillies. — Mombasa, spot. quoted at 345s. per cwt.; for shipment, 315s, to 320s. per cwt. Sierra Leone, spot. 340s. per cwt. Nigerian, No. 1, 310s.; No. 2, 280s. per cwt., spot.

CINNAMON.—Quotations for April-May shipment are as follows:—0000, 4s. 4d.; 000, 4s. 2½d.; 00, 4s. 1d.; 0, 3s. 11½d.; firsts, 2s. 9d.; seconds, 2s. 6½d.; thirds, 2s. 5d.; fourths, 2s. 7d.; quillings, 1s. 9½d.; featherings, 1s. 2d.; chips, 5¼d.; all per lb., c.i.f. London.

CLOVES.—Quiet. Zanzibar is quoted at 4s. 1d. per lb. on the spot; for April-May shipment from the origin, 3s. 11d., c.i.f. Madagascar, spot, 3s. 8d. in bond, nominal; April-May shipment, 3s. 7d., c.i.f.

Ergot.—Portuguese for shipment from origin is quoted at from 86s, to 87s. 6d. per lb., c.i.f.

Galangal.—Firm. Quotations for April-May shipment from Hong Kong are at 112s. 6d. per cwt., c.i.f.; from the Continent, 120s., landed terms.

Gentian.—French on the spot is offered at 140s, per cwt; to come forward, 130s., landed.

Gum acacia.—Easier. Kordofan cleaned sorts on the spot are now offered at 135s. per cwt.; afloat, 114s., c.i.f.; for May-June shipment, 108s., c.i.f.

Gurjun Balsam. — Business has been done on the spot at 2s. 3d. per lb.

IPECACUANHA. - Firm. Colombian now afloat is offering at 59s, per lb., c.i.f. Nicaraguan for May-August shipment is quoted at 62s. 6d., c.i.f., with business reported done at 60s., c.i.f. Matto Grosso, 64s. 6d.,

Jalap.—Vera Cruz 9-11 per cent. resin, is available on the spot at 3s. 9d. per lb.; 15 per cent., 4s. Brazil (13.9 per cent. resin) is offering at 2s. per lb., ex warehouse.

Karaya.—No. 1 gum on spot, 450s. per cwt., sellers.

Kola nuts,—African halves on spot are offering at from $5\frac{1}{4}$ d, to $5\frac{1}{2}$ d, per lb., for shipment, 34d., c.i.f.; quarters are quoted at 5\ddleqd. per lb., spot.

Liquorice. — Anatolian natural whole root on the spot in London is offered at from 51s, 6d, per cwt. Russian natural is 55s. per cwt., spot London. Syrian natural, cut, 55s. per cwt., ex warehouse London. Belgian block juice, 195s. per cwt. Turkish block juice is quoted at from 150s. to 220s., duty paid, according to holder. Turkish stick is from 170s, per cwt., duty paid. Italian stick, 240s. to 475s. per cwt., duty paid.

Male Fern.-Jugo-Slavian on the spot, is 55s, per cwt.; for shipment, 48s., c.i.f

MASTIC.—Quotations for tears (No. 2) are about 12s. 6d. per lb., spot.

Menthol.—Chinese on the spot is from 98s, 6d. to 102s, 6d. per lb., duty paid; afloat, 93s, 6d., c.i.f.; for April-May shipment from Hong Kong, 90s. nominal, c.i.f Brazil has withdrawn offers: business has been done at 88s., c.i.f. for May shipment

Nutmegs.—West Indian 80's are offering at 4s. 9d. and unassorted at 4s. per lb., ex warehouse. East Indian for shipment are

quoted at 4s. 11d. per lb., c.i.f.

lb., ex warehouse.

Papain.—East African white on spois quoted at 32s. 6d. per lb.: Cevlon white is available on spot at 32s. 6d. per lb with sun-dried at 27s. 6d. Some trade circles make Ceylon dearer to come for ward.

Rhubarb. — For good quality Chinese rough-round root, 10s. per lb., duty pair (9s. in bond) is asked, with medium grade at from 7s. to 9s., duty paid; wormy ma terial is available at about 3s, 6d, per lb. duty paid.

Sarsaparilla.—Quiet. Jamaican nativ red is from 2s, 6d, per lb.; for shipment

2s. 4½d., c.i.f.

SEEDS.—Turkish Anise on the spot is SEEDS.—Turkish Axise on the spot is 150s. per 'cwt., in bond, and 160s. per cwt., duty paid. Cyprus, 165s. per cwt. Caraway.—Dutch is quoted at 225s. per cwt., duty paid. Celery.—Indian is quiet and unchanged at 1s. 10½d. per lb., spot London. Corlander.—Morocco on spot is now offered at 180s. per cwt., duty paid and 170s. per cwt., in bond. Although it is too early to give an indication of what the new crop is likely to be, speculators have quoted as low as 100s. per cwt., c.i.f., for June-July shipment, and business has been reported at about this figure. Indian now affoat is quoted at 165s, per cwt., landed terms. Cumin.—Market continues quiet. Cyprus on spot is 255s. per cwt., Turkish, 255s. per cwt., duty paid. New-crop Morocco quoted at 167s. 6d. per cwt., for June-July shipment. Indian for April-May is 200s, per cwt. Dill.—Indian is offered at 80s, per cwt., spot. Fennel.—Indian is in short supply at 140s, per cwt., spot London. Fenugreek.—Morocco, spot London or Liverpool, is 52s. 6d. per cwt., duty paid, Mustard. — English cleaned is quoted at 145s. per cwt.

SENNA.—Tinnevelly leaves, f.a.q., No. 2, 1s. 5½d.; No. 3, 1s. 4d. (afloat, 1s. 3½d., c.i.f.); No. 4, 1s. 3d. per lb., all ex warehouse London.

Tinnevelly pods, handpicked, 2s. 2d. to 2s. 9d. per lb. andrian manufacturing pods, 1s. 6d. per lb., spot.

Shellac.—Spot F.O.T.N., pure, is 360s.; F.O. Standard 1, 400s.; and fine orange, 425s. to 490s. per cwt.

STYRAX.—Firm. Spot is quoted at 8s. 9d. per lb., in bond (9s. 6d., duty paid).

Tolu balsam.—Spot is nominally 45s. per lb.; afloat, 47s. 6d. per lb., landed terms.

Turmeric.—Madras finger is offered at 102s. 6d, to 105s, per cwt., spot London; for shipment, March-April, 98s., c.i.f., quoted.

Waxes.—Market generally has been quiet and easier. Dar-es-Salaam Bees' is nominally 720s. per cwt., spot; April-May shipment, 680s., c.i.f. Benguela on spot is Simplient, 630s., C.I.f. Benguera on spot is 725s. per cwt., duty paid; April-May shipment, 640s., c.i.f. Sudanese, 700s. per cwt., duty paid (in bond, 640s.); for shipment, 620s., c.i.f. CANDELILLA.—Spot is 630s. per cwt.; forward shipment, 620s., c.i.f. CAR-CWL; forward shipment, 620s., c.i.f. Car-Mubla.—Prime yellow is now offered at 1,250s. per cwt.; afloat, 1,200s.; for shipment 1,160s., c.i.f. Fatty grey is quoted at 1,130s. per cwt., spot; afloat, 1,060s., c.i.f.; for shipment, 1,040s., c.i.f. Montan.—Reibeck on spot is 130s. per cwt.; for shipment, 118s., c.i.f. Ouricuri.—0.5 per cent. impurities, quoted at 1,070s. per cwt. on spot: for shipment 1,000s. c.i.f. on spot; for shipment, 1,000s., c.i.f.

Valerian.—Belgian on the spot is quoted at 185s. to 190s. per cwt., spot. Indian is 160s. per cwt., spot; for shipment, 160s., c.i.f., quoted.

Essential and Expressed Oils

Almond.—In good demand. Expressed sweet oil (B.P.) on the spot is 6s. 3d. per lb. Bitter essential oil, s.a.p., on the spot, is from 27s. to 55s. per lb., as to grade.

Anise.—Easier. Little interest is being shown. Spot offers are from 13s. 6d. to 13s. 9d. per lb.; for shipment, 13s., c.i.f.

CINNAMON.—B.P. oil on the spot is quoted at from 52s. 6d. to 100s. per lb. English bark oil is offered at 21s. to 22s. 6d. per oz. Ceylon leaf, 22s. to 23s. per lb., spot, nominal.

CITRONELLA.—Ceylon is offered at 20s. per lb. on the spot; for shipment, 19s. 3d. per lb., c.i.f., nominal, Java, for shipment, 21s., c.i.f., nominal.

Clove.—English-distilled bud oil is from 30s. to 30s. 9d. per lb.; Zanzibar-distilled stem oil is nominal at 18s. per lb., spot. Madagascar leaf oil is available at 15s. per lb., duty paid.

Geranium,—Bourbon now coming forward is about 185s. delivered. African, for May-June shipment, quoted at from 190s. to 195s. per lb., c.i.f.

Lemon. — Sicilian hand-pressed (4 per cent, citral) is offered at from 65s, to 70s. per lb., spot.

Lemongrass.—Spot is available at about 33s. 6d. per lb.; for shipment, 30s., c.i.f.

OLIVE.—The market is easier. French and Tunisian refined oils are offered at from £358 to £368 per 1,000 kilos, c.i.f. London, in 200-kilo drums.

Peppermint. — Chinese arvensis oil on the spot is about 36s, to 36s, 6d, per lb.; for shipment, 35s., c.i.f., nominal. *Piperita* is available at from 58s. 6d. to 65s. per lb., as to grade. English-distilled is from 140s, to 145s, per lb.

Alcohol

Prices (exclusive of duty) of ethyl alcohol per proof gall, that came into operation on April 1 are as follows:—

Plain British Spirit (95 per cent. Gay Lussac, 66 o.p.); where the number of proof gall, taken over any one year ended December 31 is 300,000 or over the price is 4s. 5½d.; 200,000 and less than 300,000, 4s. 6d.; 100,000 and less than 200,000, 4s. 6½d.; 50,000 and less than 100,000, 4s. 7d.; 10,000 and less than 50,000, 4s. $7\frac{1}{2}$ d.; 2,500 and less than 10,000, 4s. $8\frac{1}{2}$ d.

Absolute Alcohol, 99.5 per cent., 74.5 o.p., is one penny more per proof gall. than Plain British Spirit; the special high strength (99.9 per cent., 75.2 o.p.) is threepence more. Doubly-rectified Alcohol (CVP), 05.5 per cent. threepence more. Doubly-recupied Alcohol (S.V.R.), 95.8 per cent., 68 o.p. is two-pence more per proof gall, and P.I. Rectified Alcohol, 96.1 per cent., 68.5 o.p. sixpence more than Plain British Spirit. R.R. Absolute Alcohol (re-rectified, 99.7 per cent., 75 o.p.), 14s. per bulk gall. (net).

TRADE MARKS

From the "Trade Marks Journal," March 14

For anti-anæmic preparations (5).

RUBRAFERATE, RUBRAFOLIN, RUBRA-PLEX, RUBRATON, 693,839-43, by E. R. Squibb & Sons, New York.

For deodorants (5).

NERODA, 694,928, by Cassons Dispensing Chemists, Ltd., Manchester.

For pharmaceutical substances for human and veterinary use and infants' and invalids' foods (5). DROMORAN, 695,872, by Roche Products, Ltd., Welwyn Garden City.

For safety-razor cases (8).

WINSTENT, 694,902, by William Brouard Winsor, Bath.

For scientific and photographic apparatus and instruments (9).

RECTAFLEX, 685,618, by Telemaco Corsi and Emilio Palamidessi, Rome.

For surgical, medical and veterinary instruments and apparatus (10).

SUBA-JECT, 695,423, by William Freeman & Co., Ltd., Barnsley.

For non-medicated toilet paper (16).

HILLCREST, 694,240, by Lipton's Chemical Co., Ltd., London, W.4

From the "Trade Marks Journal," March 21

For photographic films, plates and chemicals, and x-ray films (1).

ENSIGN, 694,338, by Austin Edwards, Ltd., Warwick.

For hair restorers (3).

TRICOMAX, 686,886, by John Cochrane, Airdrie.

For children's toilet soap (3).

GAI PARADE NURSERY SOAP, 693,258, by James Linday & Sons, Ltd., Nottingham.

For all goods (3 and 5).

AVLOWAXYL, 693,561 and 691,745, by Imperial Chemical (Pharmaceuticals), Ltd., London, S.W.1.

For non-medicated toilet preparations (3).

BACCHANAL, 694,784, by Bacchanal Cosmetics, Co., New York, DIRECTOIRE, 695,780, by Charles of the Ritz Distributors, Ltd., London, W.I. STARMIST, 695,875, by Steiner, W.I.

For dentifrices and non-medicated mouthwashes

IPANA, 694,900, by Bristol Myers Co., Ltd., London, S.E.1.

For non-medicated toilet preparations, toilet shampoos and soaps, shaving-soaps and cream, hair oils and lotions (3).

GELEVEN, 695,557, by John Stanley Grierson, Hale.

For detergents (3).

ESCURA, 696,122, by Anglo Hispano Trading Co. (Falmouth), Ltd., Falmouth.

For sanitary tampons and belts (5),

KOTAMS, KOTEX, 673,643-46, by Canadian Cellucotton Products, Co., Ltd., Toronto.

For pharmaceutical preparations (5).

DESOXYNE, 680,190, by Abbott Laborator, North Chicago. PECTOCEL, 692,367, by it Lilly & Co., Indianapolis. PASAVLON, 692, 5 by Imperial Chemical (Pharmaceuticals), L. London, S.W.I. NEOPHRYN, 692,654, by Berroducts, Ltd., London, W.C.2. RHEUM, REN, 693,934, by Stanning Proprietaries, L. London, W.I. AMINEVAN, 694,244, by Examples, Ltd., Liverpool. PENT - PRIN, 694,926, by Hough, Hoseason & Co., L. Manchester.

For all goods (5).

BUBAN, 689,491, by the Wellcome Foundat Ltd., London, N.W.1. RESODEC, 691,665, Smith, Kline & French International Co., Ptdelphia. AVLOTET, 694,953, by Imperiodentical (Pharmaceuticals), Ltd., London, S.V. For chemical substances for use in medicine

pharmacy (5).

CODANTUS, 694,029, by Harker Stagg, I London, E.1.

For gypsum plaster and cement for surgery

dentistry (5).
CRYSTACAL, 694,071, by Cafferata & Co., I
Newark-on-Trent.

For disinfectants (5).

ATROL, 694,366, by Duncan, Flockhart & Ltd., Edinburgh.

For pharmaceutical preparations and invalids' fe's (5).

PLENERGEX, 694,884, by the Vitax Produs, Co., Littlehampton.

CORRESPONDENCE

Response to an Appeal

Sir,—Recently I addressed an appeal of the pharmacists of Manchester, Salf 1 and district for contributions towards building of Montgomery House, a Y.M.C.A. hostel in Manchester for the of students, examination candidates, others who have to make a short stay n this city. On March 28 a "purse" c taining £180 was presented to H.R.H. Duchess of Kent as the result of appeal. I wish to thank all who contributed, and my further thanks due to Messrs. Lomax and Steinman, sident and chairman respectively chief local pharmaceutical organisa. and to Messrs. Miller and Cronin, see taries, for their whole-hearted suppor the effort, which was officially sponso by the local organisations. In conclusmay I indicate that any further contritions addressed to me will be gratef acknowledged by the Y.M.C.A.?

HARRY BRINDLE.
Department of Pharmacy,
Manchester Univers

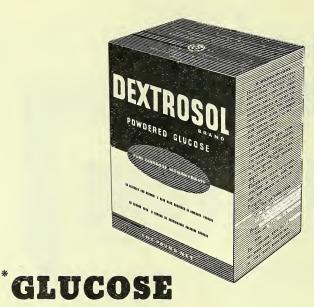


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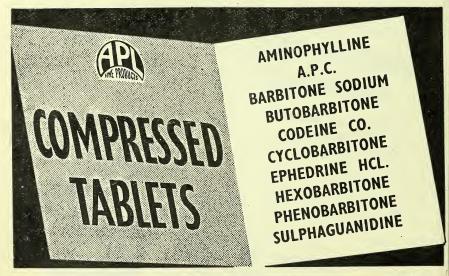
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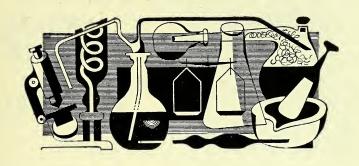
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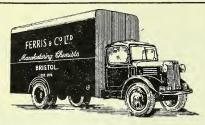
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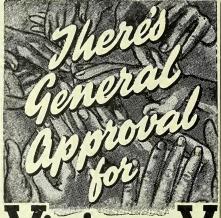
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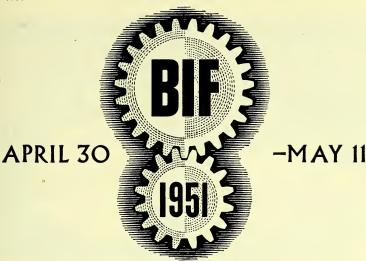
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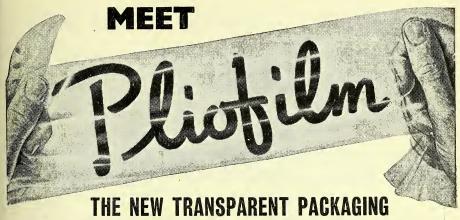


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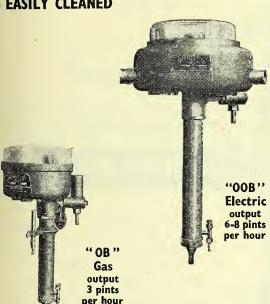
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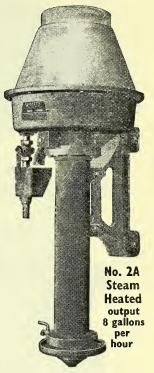
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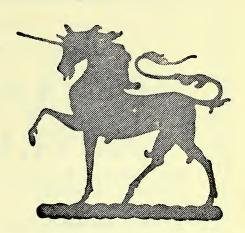
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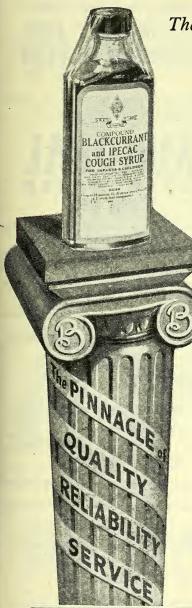
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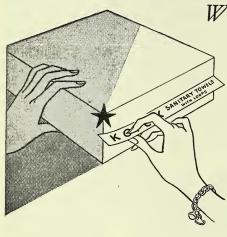
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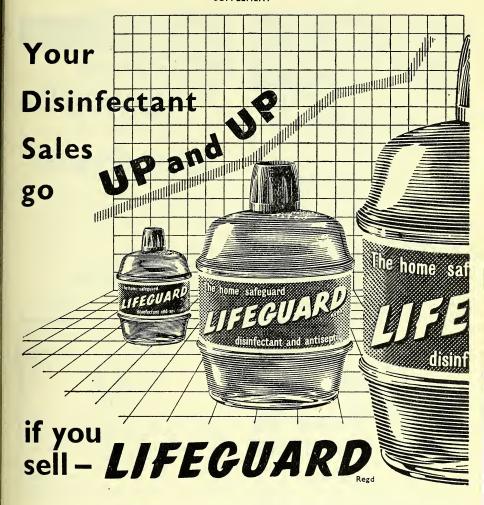
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FOR 2nd APRIL, 1951

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No. 0	 	 	24/3		$2/8\frac{1}{2}$
No. I	 	 	28/8		3/2
No. 2	 	 	35/5		3/11
No. 3	 	 	43/6		4/91
No. 4	 	 	51/8		5/8

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			Trade Per Gross Towels	S	elling Pric doz. Tow	e els		
NEW XO			19/7		2/2			
STANDARD			21/4		2/4			
POPULAR XI/T	• • •	• • •	22/10		2/6			
WITH PATENT DETACHABLE "SEWN-ON" LOOPS								
POPULAR XI/S	•••	•••	23/10		2/7			

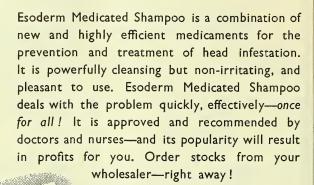
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for head disinfestation



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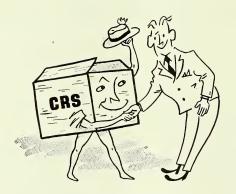
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•	TRADE PRICE Dozen	PURCHASE TAX	CONSUMER PRICE Each
SOAP	$9/6\frac{1}{2}$ d.	331/3%	1/3d.
OINTMENT, standard	11/6d.	331/3	1/7d.
OINTMENT, large	23/-d.	331%	3/2d.
TALCUM POWDER	11/6d.	100%	2/3d.
SHAVING STICK in plastic case	15/6d.	331/3%	2/2d.
SHAVING STICK refill	10/6d.	331%	1/6d.

British Distributors: NEWBERY & PHILLIPS LTD.

203 Victoria House, Southampton Row, London, W.C.1

Manufacturers: POTTER DRUG & CHEMICAL CORPORATION, 205-207 Victoria House, Southampton Row, London, W.C.1 PRESENTING TWO LEADING LINES OF THE POPULAR 'ACME' RANGE



in assorted colours

RETAIL prices:

l pt. large cup - 5/3

I pt. small cup - 4/11

2 pt. large cup - 9/11



ACME VACUUM FLASK COPHOENIX WORKS, BRIDGEND, GLAM.

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RELIABLE

ELASTIC HOSIERY

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SURGICAL BELTS
TRUSSES AND SUNDRIES

Over 50 years' service of everything Surgical

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be ready for the This all British register gives complete efficiency with simplicity of operation.

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Widespread advertising will again bring this quick selling insecticide regularly to the notice of millions of buyers.

Splendid eye-catching, sales-promoting displays are available. Send your order now for SECTO EXTRA POWER D.D.T.

CUPAL LTD., Manufacturing Chemists, BLACKBURN

BONUS! and Increased Advertising in 1951 for MERCOLIZED WAX

Our letter gives details. Take advantage of this wonderful opportunity to make a good start to the New Year with EXTRA PROFITS.

Sales Distributors:

POTTER & MOORE, LTD..

Lavender House, Seymour Road, Leyton, London, E.10



you stock SHADEINE!

Still the best hair tint. In all natural shades. Stocked by all wholesalers. Trade prices—I oz. 16/9 per doz., 2 oz. 29/7 per doz. Purchase Tax 100% Retail prices 3/3 and 5/9 per bottle respectively.



SHADEINE 49 Churchfield Rd. Acton, London, W.3

STOCK THIS RAPID SELLER



dealing safely and swiftly with corns, callouses, hard skin etc. Foot conscious customers will clamour for this. Trimacorn keeps feet fit and the sales moving. Retail at 2/- (inc. P.T.)

Full details from: JAMES & CROOKES LIMITED 31 STANWOOD AVENUE . SHEFFIELD 6

Seen the new Wisdom ads?

Wisdom BECAUSE... Wisdom toothbrushes have a correctly-shaped handle. They're made to help you get into every crevice, even the hardest to reach. No wonder more dentists favour the Wisdom shape than that of any other toothbrush, Nylon (Round-ended), 1/11d., Natural Bristle, 2 9d. THE CORRECT-SHAPE TOOTHBRUSH MADE BY ADDIS LTD., OF HERTFORD

New advertising for Wisdom has pretty well everything. The eye-catching quality of a good idea . . . hard-hitting copy . . . plenty of focus on Wisdom's famous correct-shape handle . . . everything calculated to make Wisdom sell even quicker.

Your customers will see this new campaign in all the national dailies, leading provincial papers, and magazines . . . so make sure you're well stocked with Wisdom. Extra (round-ended nylon) retails at 1/11d., natural bristle (guaranteed Chungking and Siberian) at 2/9d.

BONUS

Don't forget the Wisdom Bonus Offer goes on till April 30. Ask your wholesaler.



Wisdom

The de luxe toothbrush in Natural Bristle and Nylon

A NEW Emolient of High Therapeutic Value

and the state of t

Radian MASSAGE CREAM

Specially prepared for Athletes and those taking strenuous exercise, Radian Massage Cream is based on the formula of the already well-known Radian-B Liniment. Bland to use and readily absorbed by the skin, it is of high therapeutic value in the reduction of swollen and congested tissues. Radian Massage Cream is very efficatious in the treatment of muscular stiffness, bruises, sprains and rheumatic pains. As a prophylactic its application before and after exercise is recommended.

Radian Massage Cream is supplied in tubes, 40z.-25/-, and 80z.-45/- per dozen; also in 11b & 21b containers for dispensing and professional use.

An advertising Campaign will shortly commence Professional samples and literature are available from:-

VANdyke 2692

Grams: Radiatonal, Van. London

78 UPPER RICHMOND ROAD, LONDON, S.W. 15



CARR'S VITAMIN B. PREPARED WHEAT EMBRYO

RICH NATURAL SOURCE OF VITAMINS B and E

TWO SIZES

Trade 16/- doz. or 27/- doz. FREE NON-RETURNABLE CARTONS

> From Principal Wholesalers or from the Manufacturers

CARR'S CEREAL PRODUCTS LTD CARLISLE

PUGET OLIVE

Shipped by Ets. Adolphe Puget, Marseilles, France (Est. 1857).

Your enquiries are invited for all grades of edible, pharmaceutical and industrial olive oil in bulk and retail packages

Sole Agents in U.K.

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Telephone: Central 3608/9

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2½d. STOCKING (except Black)
4d. COLD WATER, CURTAIN
and Black Stocking Dyes
Order Dyes and Shade Cards from our Agents
6t. Britain: W. B. Cartwright Ltd., Rawdon, Leeds N. Ireland: T. McMullan & Co., Ltd., 42 Victoria St., Belfast. Eire: May Roberts (Ireland) Ltd.,

Grand Canal Quay, Dublin, C.6

In a word,

its a best sellerword is

and the word is



Lanolin is no mystery ingredient. Its qualities are known and accepted by every woman in the country. Therefore Bristow's LANOLIN Shampoo found a ready market and has gone from success to success. Of course, the Lanolin ingredient alone was not sufficient to send sales soaring in this way—Bristow's is an EXCELLENT SHAMPOO!

Bristow's LANOLIN SHAMPOO

F. Bristow & Co. Ltd., Old Bond Street, London, England

royds T.39

We are TOTALITARIANS

ABOUT CORKS

ET'S admit it. So far as corks are concerned, we're out-and-out dictators. Regimentation, standardization—these are our watchwords. We plead guilty to our

We plead guilty to our reputation for reducing corks to a state of unbelievable uniformity.

We do it by sheer ruthlessness. Corks hate us! Boiled alive, pressed flat, shut in the dreaded "hot-box," they are then sliced and punched, tapered, sanded, notch-



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ed, bleached and branded—no atrocity is spared to stamp out individuality.

Not a cork can escape; many are completely eliminated. Sometimes only 5 per cent. of a whole batch survive to become corks of our Grade A quality. If a cork is even 1/63rd of an inch too small, it is pitilessly rejected and ground into by-products.

IF YOU, too, feel totalitarian about corks, and want them, in each grade, as uniform in size and quality as skill and experience can make them—please get in touch with us by letter or telephone. Armstrong Cork Company, Ltd. (Closure Division), Kingsbury, London, N.W.9. Telephone: Colindale 7080. Scottish Branch: 5 Oswald Street, Glasgow, C.I. Telephone: Central 5703.

FREE ON REQUEST. The handy Armstrong String of Standard Cork Sizes shows at once what size you want'—whether for dispensing or for ordering supplies. May we send you one?



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CORKS . CROWN CORKS . MOULDED CAPS

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PROTECTIVE CLOTHING



MEN'S WHITE DRILL LONG COATS 36" to 46" Chest 24/5 each

MEN'S WHITE DRILL JACKETS 36" to 46" Chest 17/10 each

WOMEN'S WHITE DRILL LONG COATS

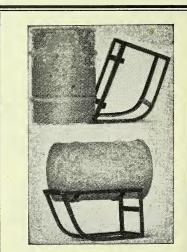
Button Front, Belted s.w. w. & w.x. o.s. 23/11 25/9 28/6

All the above are Utility and Fully Shrunk. Postage and Packing I/- extra. Hours of Business, 9—5.30 p.m. Closed Thursday i o'clock.

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Branches: DEPTFORD, S.E.8;

Woolwich, S.E.18 CLAPHAM, S.W.11



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Obtainable in the following sizes: Roll Films (Ortho or Superpan), 20, 520, 27, 16, 516. 35 mm. cassettes and refills (F. G. Pan) I x 36, 3 x 36, and IO x 36. Film Packs (Superpan) $3\frac{1}{4}$ x $2\frac{1}{4}$ in. and 9 x I2 cm.

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Sole importers of Ferrania products for Great Britain:

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77 NEWMAN STREET, LONDON, W.I

Telephone: LANgham 7161 (6 lines)

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PHARMACEUTICAL EMULSIONS & EMULSIFIERS

by L. M. Spalton, B. Pharm., M.P.S.

Today, the pharmacist is faced with an almost bewildering assortment of emulsifying agents, all having varying properties and requiring different methods of treatment.

In this book the considerable range of these products has been classified together with essential practical points about their pharmaceutical use. It contains chapters devoted to the theory of the formation of emulsions, properties of different emulsifying agents (classified into groups according to their structure and characteristics), the formulation and preparation of emulsions, the general methods of preparing emulsions with details of technique and causes of emulsion separation, preservation and storage of emulsions etc.

The practical uses of emulsifiers is dealt with at considerable length, together with methods of handling each type of emulsifying agent and full notes of incompatibilities and other matters.

The book also contains a classified index of over 300 emulsion agents used in the Drug, Toilet and Cosmetic trades and other industries, with references to their composition, type and uses together with an index of manufacturers.

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low is the time to stock—



THE ORIGINAL SAFE SOLID FUEL AND

SLUG DESTROYER

Popular demand for Meta is at its height in the "outdoor" season. Meta gives Intense heat, is impervious to damp and perfectly safe to use. It does not deteriorate in storage, provided it is in a cool atmoshere.

DEATH TO SLUGS A crumbled tablet mixed with bran or meal and laid on the ground in small heaps positively destroys slugs. Every gardener is, therefore, a potential customer.

SAFETY Solid fuels of this type can be injurious to health if taken internally. META is the only fuel which is specially treated to render it unpalatable to children by giving it a bitter taste.

Meta is packed in the following sizes :-

10's - 1/3d. 20's - 2/4d.

50's - 5/6d.

obtainable through your wholesaler, wholesalers enquiries to :-P. TOULSON LTD., 18 CHEQUER STREET, ST. ALBANS, HERTS

APPLIANCES

Here are two of the cooking appliances for use with Meta.



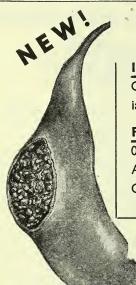
Folding Stand No. 30 which takes kettle or saucepan and embodies specially designed burner. 8/6d. Retail



Cup Nos. 42 and 71 Burner and stand fit snugly into cup for carrying No. 42 (capacity approx. ½ pint) 9/3d. Retail

No. 71 (capacity approx. 1 pint)

Leaflets available for counter



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RECTAL THERAPY

Cystitis, Uterine Inertia, Dysmenorrhœa, Cholelithiasis, Cholangitis, Prostatitis.

FORMULA: Ext. Bellad. Sicc 1%, Papaverine Hyd. 0.99%, Ephedrine Hyd. 0.05%, Strontium Iod. 1%, Atropine Methylnitrate 0.05% in special Oleum Cocoa Suppository.

Literature on request

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AXTELL HOUSE, WARWICK STREET, LONDON, W.



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AGITATOR - EMULSIFIER
LABORATORY MODEL SL-A

All Stainless Steel
Contact with Fluid

Built-in Control gives speed variation between 20 and 2000 r.p.m.

Also larger models. SL-I for vessels up to 5 galls. and S.C. for vessels up to 500 galls.

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> RIGID BOXES, PLAIN and FANCY

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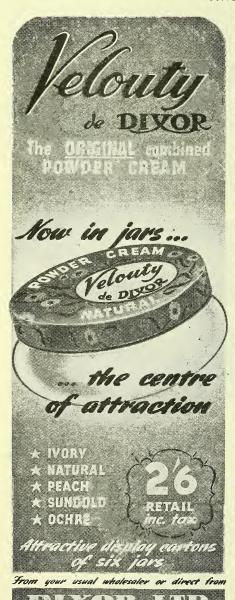
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TABLETS

The best method prescribing the valuable synergis A.P.C.

combination.

Dispensing pack 75 for 2/6 Tax Fre Retail Counter Packs 10½d. 1/9 and 3/

- Will not constipate.
- Well tolerated by patients liable to gastric upset.
- Rapid and prolonged antipyreti and analgesic action.

FORMULA

Acid Acetysal - 2½ gr. Calc. Phos. - 2½ g Phenacetin - 2½ gr. Phenolpthalein 1/12th g Caffeine - 1 gr. Amylum - - 1 g

ABBOTTS DRUGGISTS LT

338 Kilburn High Rd., & Iverson Rd., London, N. 6



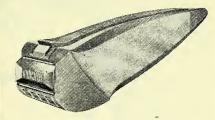
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The FONTA WATER RAZOR

Il men on the look out for new and better naving methods—and what man isn't—will elcome the FONTA Water Razor, the easiest, nickest, smoothest-shaving razor ever esigned. Like the safety razor itself, the ONTA is one of those revolutionary, habitanging developments that bring a tremenous increase in business for those who seize new opportunity at the start. Send your quiry now!

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- Shaves by water cutting—needs no soap, cream or plugging in.
- Takes all popular makes of blade.
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The Fonta Water Razor is fully protected by British and Foreign Patents, granted and pending.

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ANNOUNCING THE **NEW** 80z. PACK

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Its resilience and retraction provide a firm and comfortable support appreciated by the Medical Profession.

 $2\frac{1}{2}$ " x 3 yards 3" x 3 yards

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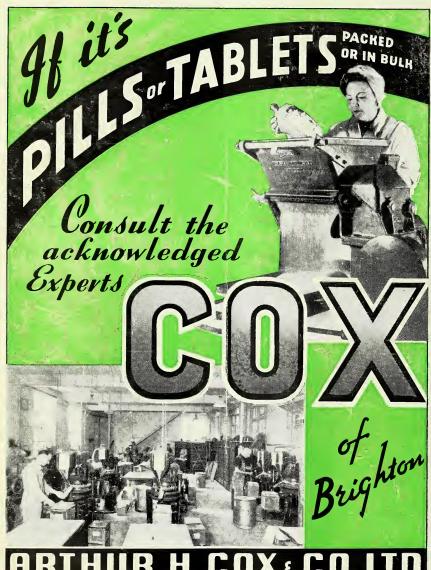
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The CHEMIST AND DRUGGIST APRIL 7, 1951



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